SUBURBAN

HOLDEN

Owner's Name .....

Address .....

Town .....

State.....Postcode .....

Model Name .....

Reg. No.....Eng. No. .....

Odometer Reading .....

Date of Purchase .....

(17 character I.S.O.V.I.N.) Vehicle Identification Number

VehicleIdentification Certificate

Selling Dealer's
Stamp & Signature

Isuzu-General Motors Australia Limited, A. C. N. 006 962 572 (hereinafter I-GM).

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, we may need to contact you as the owner of this car. Also, if less than three years old, this car will qualify for Roadside Assistance, refer Chapter 9. If you have recently changed your address, or name, or purchased this car second-hand, please help us to help you by taking a few minutes to fill in and mail the form on the third page of this handbook.

Part No. 92074574
October 1998 (Print 2)

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We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to all Suburban models. Therefore, you may find reference in this Handbook to some equipment not fitted to your own car.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. I-GM reserves the right to make changes at any time without notice and without incurring any obligation.

CHANGE OF ADDRESS OR OWNERSHIP

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Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Mr, Mrs, Ms, Miss, Dr, etc.

First name in full or initials

Surname or Name of Company/Institution/Government Department

Address

Street/box

City/Town

State Postcode

Car registration number

Holden Number (see page 8-4 of this book)

ISOVIN No (shown on page 8-4 of this handbook)

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
Holden Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

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CHAPTER 1

Dash

The following page illustrates the dash board, identifying the gauges, warning lights, controls and switches. Page reference numbers are listed next to each item.

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1-20 Heating & air conditioning
1-22 Rear window demister
1-23 Rear heating & air conditioning
1-24 Operating tips
1-25 Lighters
1-25 Ashtrays
1-25 Dash storage
1-26 Bonnet release
1-26 Hatch release
1-27 Electronic transfer case
1-27 Fuse box

LAYOUT

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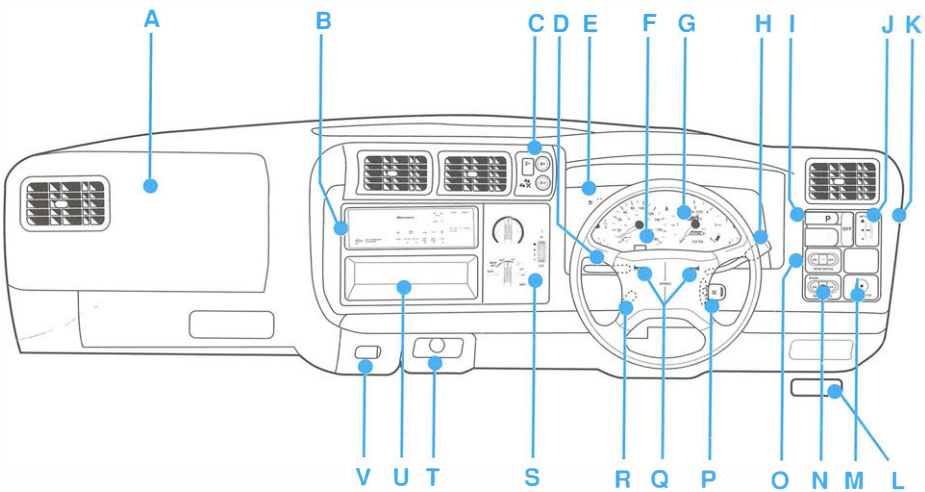
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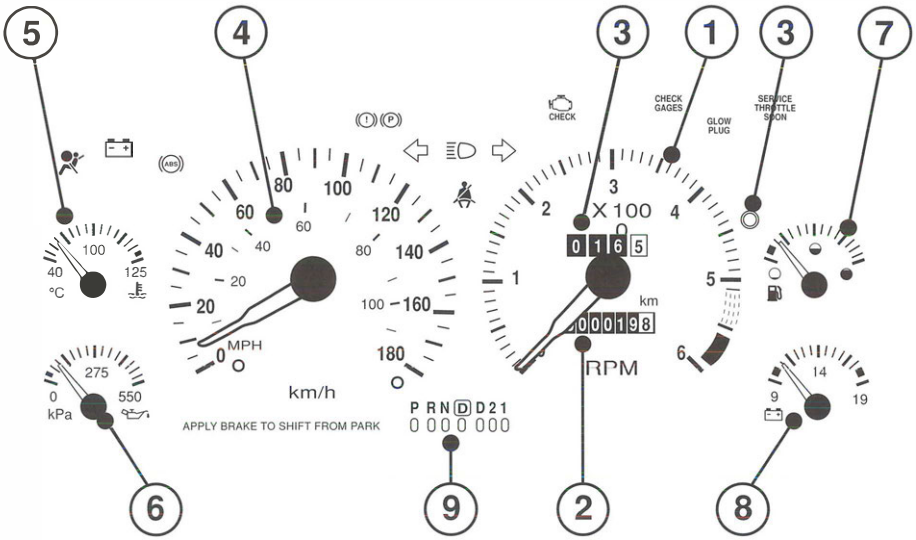
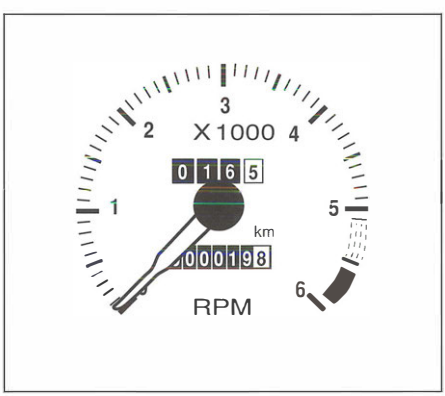
GAUGES



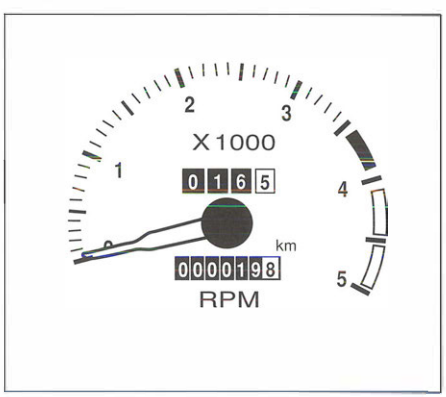
1. Tachometer

The tachometer shows engine speed in revolutions per minute (r.p.m.). Operation in the warning zone (5,000 to 6,000 r.p.m. for petrol engines and 4,000 to 5,000 r.p.m. for diesel engines) may cause serious engine damage.

Petrol



Diesel



GAUGES (cont.)

2. Odometer

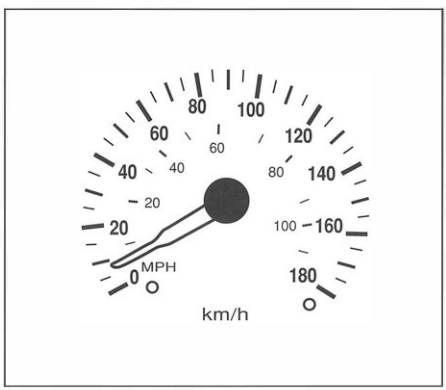
The odometer records the distance travelled in kilometres since the vehicle was built. It will show silver lines between the numbers if someone tampers with it.

3. Tripmeter and reset knob

The tripmeter records the kilometres driven on a particular trip. Press the tripmeter reset knob (near the tripmeter) to reset the tripmeter to zero.

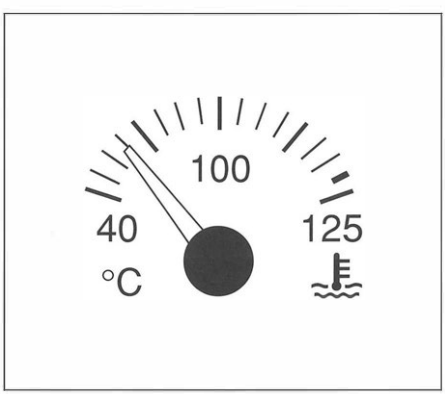
4. Speedometer

The speedometer shows the vehicle speed. The outer ring of numbers indicates the speed in kilometres per hour. The inner ring of numbers indicates the speed in miles per hour.



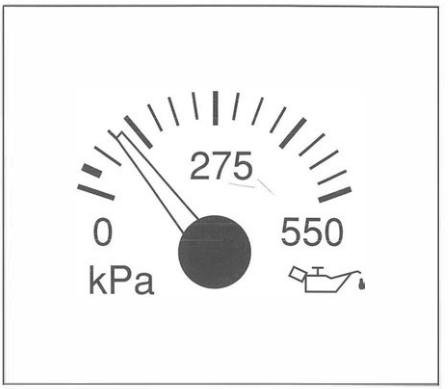
5. Temperature gauge

The temperature gauge indicates the engine coolant temperature. Under normal driving conditions, the needle will usually be pointing near the 100°C mark. Stop/start driving in heavy traffic, driving at high speed in warm weather, hill climbing or towing may cause the needle to move toward the 125°C mark on the gauge. This is normal, and is not cause for concern. However, if the needle should move all the way to the right of the gauge, reaching the 125°C mark, and remain there for more than a few seconds, an overheat condition is indicated. Stop the vehicle as soon as it is safe to do so. Turn the engine off and refer Chapter 6 for overheating instructions.



GAUGES (cont.)

6. Oil pressure gauge



The oil pressure gauge indicates the pressure of oil in the engine. The scale ranges from 0 to 550 kPa.

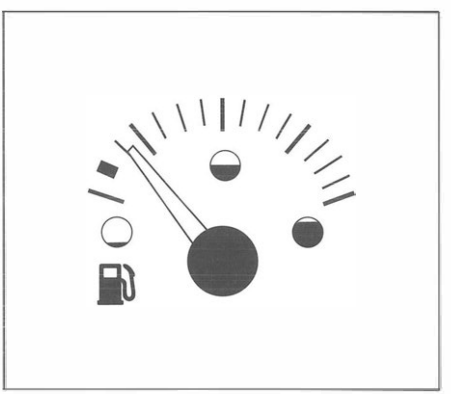
Oil pressure may vary with engine speed, outside temperature and oil viscosity, but readings above the low pressure zone indicate the normal operating range.

A reading in the low pressure zone may be caused by a dangerously low oil level or by other problems causing low oil pressure.

Therefore, if the reading is in the low pressure zone, stop the engine immediately and check the oil level (after allowing approx. 5 minutes for the oil to settle). Refer Chapter 7 for oil level checking information.

Do not run the engine with low oil pressure as this could lead to serious engine damage. If the oil level is normal, have the system checked at your nearest Holden Dealer.

7. Fuel gauge



The fuel gauge shows the level of fuel in the fuel tank when the ignition is ON.

Note that due to movement of fuel in the tank, the needle may move during turns, stops and acceleration.

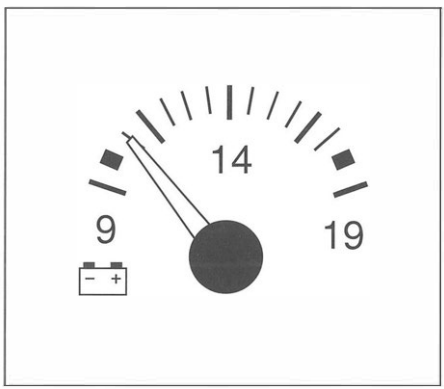
When the needle is pointing all the way to the right side of the gauge, the tank is full. When it points all the way to the left side of the gauge, it is (almost) empty. When the gauge first reaches the empty mark, there is still a little fuel left but you should refill the tank as soon as possible.

GAUGES (cont.)

8. Voltmeter

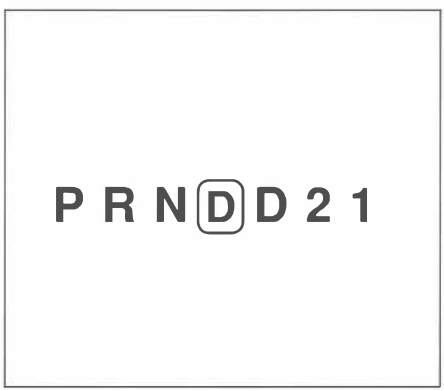
When the engine is operating, the voltmeter indicates the charging system voltage. When the ignition is on but the engine is not running, it indicates the state of charge of the battery.

Needle movement to the extreme left side of the gauge indicates a 'too low' voltage condition, movement to the extreme right indicates a 'too high' voltage condition. In either case the electrical charging system will require checking. Normal voltage is indicated when the needle is pointing more toward the centre of the gauge.



9. Automatic transmission

The automatic transmission shift lever position is shown on the instrument cluster.



WARNING LIGHTS

Turn signals

The appropriate arrow will flash when the left or right turn signals are in use.

If the arrow does not come on or if it does not flash, check the bulb and fuse.

NOTE: Both arrows will flash when the hazard switch, located on top of the steering column, is activated.

High beam

This symbol is displayed when the headlight high beams are in use.

Seat belts

This light comes on for a while when the engine is started to remind you to fasten your seat belts.

You may also hear a chime.

If the driver's belt is already buckled, neither the light nor the chime will come on.

Air bag

To check that the bulb and air bag system are working, this light should blink for a few seconds when you start your engine. Then the light should go out. This means the system is ready.

If the symbol stays on or if it comes on while driving, there is a defect in the air bag system, and it will not work in the event of an accident. You should consult your Holden Dealer as soon as possible.

WARNING LIGHTS (cont.)

Battery

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the light stays on or comes on while driving it indicates that the generator is not charging properly. If the generator drive belt is intact there is a problem in the charging system and you should see your Holden Dealer. Driving while this light is on could drain your battery.

If you must drive a short distance with the light on, turn off all your accessories, such as the radio and air conditioner.

Brake

This light should come on when the ignition is on but the engine is not running, as a check to show you it is working properly.

This light will come on when the ignition is turned ON and the park brake is applied. The light only indicates whether the lever is up or down, not how well the park brake is applied - always pull the lever as far up as possible. Never drive with the park brake applied.

If this light comes on when you are driving (and the park brake lever is fully down) it indicates that a fault is detected in the brake system. Pull off the road and stop carefully. Remember that

- stopping distances may be longer.
- that you may have to push harder on the brake pedal.
- that the brake pedal may go down more than usual.

Check the brake fluid level in the master cylinder. Refer Chapter 7 for information. Note that the warning light does not eliminate the need for the routine brake fluid level check.

For your safety the vehicle should not be driven when the light is on. If the light stays on, have the vehicle towed for service.

Diesel only

If your vehicle has a diesel engine then the light (coming on while driving) could indicate low brake vacuum. Note that depressing the brake pedal repeatedly may cause the brake warning light to come on when the engine is idling. This is because more vacuum is being used than being created. The light should go out when the engine speeds up. If it does not, it indicates a fault in the system and you should not continue driving.

WARNING LIGHTS (cont.)

Check engine

Your vehicle is fitted with an Electronic Engine Management System. The check engine symbol indicates when system service is required.

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated while you are driving it indicates a fault in the Engine Management System. Although the vehicle may still be driveable it is recommended you have a Holden Dealer correct the problem as soon as possible. Note, however, that if the symbol is flashing, you should reduce vehicle speed (and cargo weight if towing a trailer), and avoid hard acceleration and steep uphill grades. Then, if the symbol continues to flash, stop the vehicle as soon as it is safe to do so. Turn off the ignition and wait at least ten seconds before restarting the engine. If the symbol is still flashing, follow the previous steps and drive the vehicle to your service centre.

Anti-lock brake system

To check that the bulb is working, this symbol lights up and goes out when starting the engine.

If the light stays on or comes on while you are driving, carefully stop the vehicle and turn off the engine. Then restart the engine to reactivate the system. If the light stays on or illuminates again while you are driving you should have the system checked by a Holden Dealer. Note that this light only means that the *anti-lock* system is not operating - your vehicle's brake system will still operate conventionally. Refer Chapter 4.

Gauges monitor

To check that the bulb is working, this light is displayed when the ignition is turned on. If the light does not come on, check the bulb and fuse.

If the light stays on after the engine has started or comes on while you are driving, you should check the various gauges to see if they are in the warning zones.

WARNING LIGHTS (cont.)

Glow plugs (diesel only)

Your diesel engine has a special starting system. Turning the ignition key to ON starts the system and turns on the indicator light.

When the glow plugs have heated the engine enough for it to start, the light will go out. This tells you the engine is ready to be started. Waiting time varies considerably with engine and air temperatures. Refer 'Diesel Engine Starting' in Chapter 4 for more information.

GLOW PLUG

Service throttle soon (diesel only)

A computer monitors the operation of the electronic accelerator. As a check to show you it is working, this light comes on for a few seconds after the ignition is turned on.

Normally, it will not come back on unless the ignition has been off for 30 seconds or more. If the light does not come on at all, and the ignition has been off for 30 seconds or more, have the light fixed right away. If it stays on after the engine starts, or comes on while you are driving, there may be a problem with the vehicle. Take the vehicle in for service.

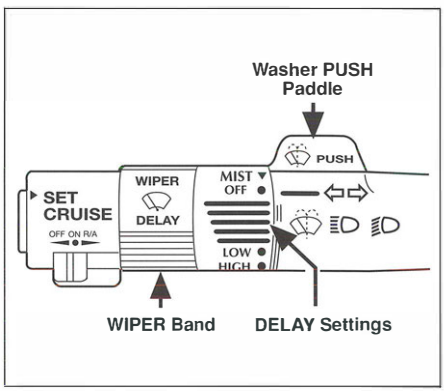
SERVICE THROTTLE SOON

WIPERS & WASHERS

NOTE: Always clear ice or snow from the wiper blades before using the wipers.

Windscreen wipers

The windscreen wipers and washers are controlled by the lever located on the left side of the steering column.



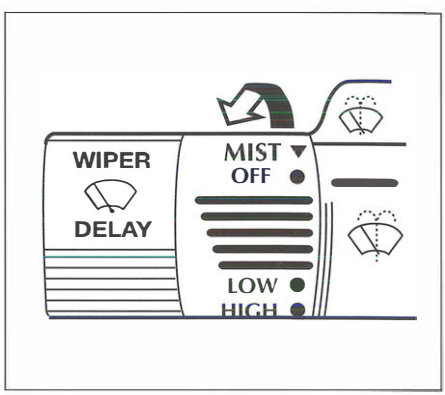
Rotate the band marked **WIPER** to turn on the wipers.

Rotate the band toward you to the **MIST** position for a single wiping cycle.

For steady wiping, rotate the band away from you to **LOW** (for low speed wiping) or to **HIGH** (for high speed wiping).

In light rain or snow, you can use the delay feature. Rotate the band to **DELAY**, and keep turning it away from you to choose the desired delay time between sweeps. The closer the setting is to **LOW**, the shorter the delay.

To turn off the wipers, set to **OFF**.

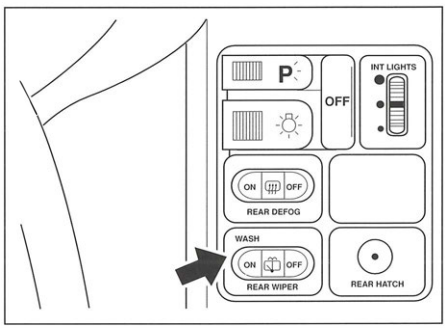


Windscreen washer

Do not operate the wipers if the windscreen glass is dry as it may cause damage. To obtain a spray of fluid onto the glass, push and release the paddle marked **PUSH**, located on the top of the lever. The washer will spray and then stop. If you need more fluid, just push the paddle and hold it as long as required. The wipers will clear the windscreen and then either stop or return to your preset speed.

WIPERS & WASHERS (cont.)

Tailgate wiper and washer (if fitted)



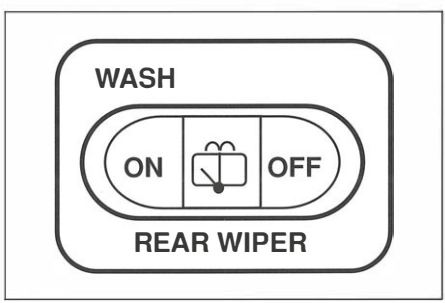
The rear wipe/wash switch is located on the instrument panel, to the right of the steering column.

Do not operate the wiper when the window is dry. It may cause damage. Do not operate the wiper if it is caked with snow or is frozen as it may damage the wiper system. To turn the wiper on, press **ON**.

To wash and wipe simultaneously, press **ON** all the way and hold it as long as required.

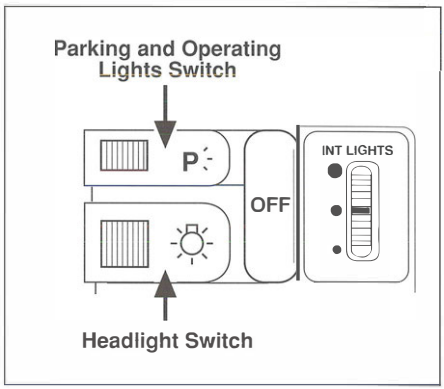
To turn off the rear wiper, press **OFF**.

The fluid for the rear washer comes from the same bottle as the fluid for the front windscreen. If the fluid level in the bottle is low, you may not be able to wash the rear window. If you can wash the windscreen, but not the rear window, check the fluid level.



LIGHTS

Head lights and park lights



The exterior light switches are located to the right of the steering column.

Press the parking and operating lights switch to turn on the park, tail, rear license and instrument panel lights. The headlights will not turn on.

Press the headlight switch to turn on the headlights as well as the parking and operating lights.

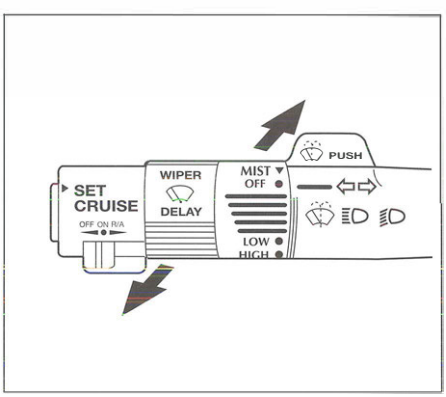
Press OFF to turn off the lights.

Unless the instrument dimmer is turned all the way down, a buzzer will sound if the ignition is turned off while the lights are still on. This will remind you to turn the headlights off.

Never leave the headlights on for any length of time when the engine is not running or you will flatten the battery.

NOTE: A circuit breaker protects the headlights. If there is an electrical overload, the headlights will flicker on and off. If this happens, have the headlight wiring checked right away.

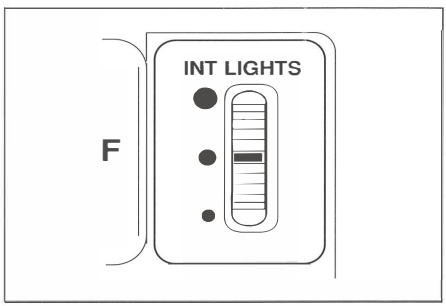
Headlight high/low beam



The high/low beams are controlled by the lever on the left side of the steering wheel column. With the headlights on, pull the lever towards you, until you feel a click, then release. The headlights will change between low and high beams. When the high beams are in use, the high-beam indicator light on the instrument panel will be displayed.

LIGHTS (cont.)

Instrument dimmer



The instrument lights turn on when the park or headlights are turned on.

Brightness of the instruments is controlled by the thumb wheel, located next to the parking light and headlight controls to the right of the instruments.

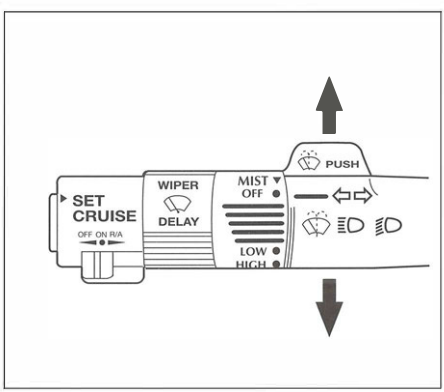
Turn the wheel up for brighter, down for dimmer.

Turn the wheel to the full up position to turn on the interior lights. Refer Chapter 3 for more information on interior lighting.

Interior lighting

Refer Chapter 3.

Turn signals

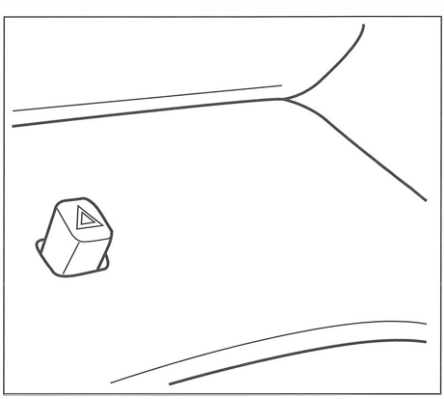


The turn signal lever is on the left side of the steering wheel column. Push the lever up to signal a right turn, down to signal a left turn. The lever will return to the neutral position when the turn is completed.

In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when you release it.

An arrow on the instrument panel will flash when the lights are in operation.

Hazard warning flasher



The hazard switch is located on top of the steering wheel column.

Turn on the hazard warning flasher (regardless of the ignition key position) by pressing the switch. The front and rear turn signal lights will flash on and off.

Press the switch again to turn the hazard flasher off.

Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night.

Use of the hazard warning system while the vehicle is moving is illegal in some states.

CRUISE CONTROL

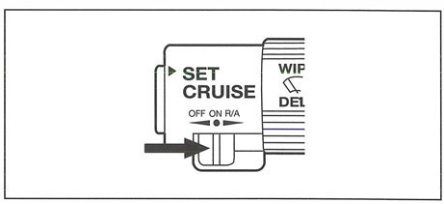
The cruise control can keep the vehicle at a constant speed, so that the driver does not have to use the accelerator pedal.

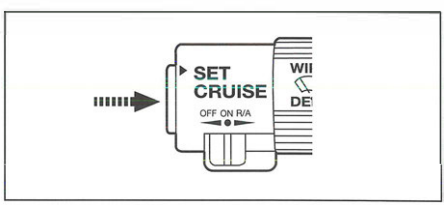
This is useful when driving on an open road where frequent deceleration and acceleration are not required. The cruise control speed cannot be set below 40 km/h. For your safety, do not use the cruise control when driving in heavy traffic or on winding roads.

The controls are located on the end of the lever on the left side of the steering column.

SETTING A DESIRED SPEED

Move the cruise control switch to **ON** and use the accelerator pedal to get to your desired speed. Push and release the set button on the end of the cruise control lever. You can now remove your foot from the accelerator pedal. The vehicle speed will be maintained by the cruise control.





ACCELERATING

If you wish for a short burst of speed (as you may need when passing another car, for example) use the accelerator pedal. When you take your foot off the pedal, the vehicle will slow down to the speed set before passing.

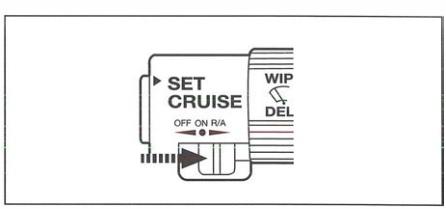
RESETTING TO A HIGHER SPEED

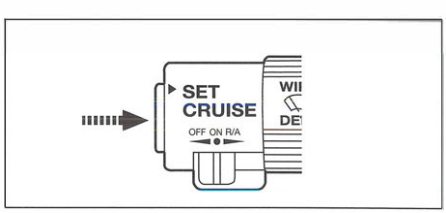
If you wish to increase the cruise control speed you may either:

(a) move the cruise control switch to **R/A** (resume/accelerate) for less than 1 second. This is known as 'tap up'. Each time you move the switch to this position for less than one second the cruise control speed will increase by 1.6 km/h.

(b) move the cruise control switch to **R/A** (resume/accelerate) and hold for more than one second. The cruise control speed will increase until you release the switch.

(c) use the accelerator pedal to increase vehicle speed, push in the **SET** button on the very end of the lever (for less than one second) then release.





CRUISE CONTROL (cont.)

RESETTING TO A LOWER SPEED

If you wish to decrease the cruise control speed you may either:

(a) depress the **SET** button for less than 1 second. This is known as 'tap down'. Each time you depress this button for less than one second the cruise control speed will decrease by 1.6 km/h.

(b) depress and hold the **SET** button. The cruise control speed will decrease until you release the button.

STOPPING CRUISE CONTROL

If, while the vehicle speed is maintained by the cruise control, you:

(a) depress the brake pedal

(b) shift the transmission lever to **N**

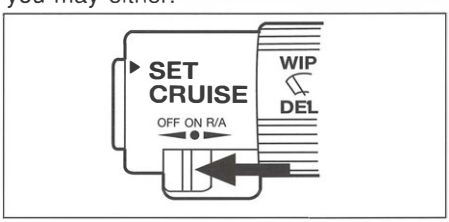
The cruise control will stop controlling the vehicle speed. However the memory will store the last set speed. To resume this speed, use the accelerator pedal to bring vehicle speed to at least 40 km/h, then move the switch to **R/A** for less than one second. Note: If the switch is held for more than one second the memory will be erased and the cruise control will be in the acceleration mode (the speed will increase until you release the switch).

To completely switch off the cruise control you may either:

(a) move the switch to the **OFF** position

(b) turn off the ignition

Note that when going up steep hills it may be difficult for the cruise control to maintain a constant speed, in which case it may cancel itself.



WARNING

DO NOT USE THE CRUISE CONTROL WHEN ROAD OR DRIVING CONDITIONS COULD REQUIRE VARYING SPEEDS. A CONSTANT SPEED MAY NOT BE PRACTICAL IN HEAVY OR VARYING TRAFFIC, OR ON WINDING, SLIPPERY OR ROUGH ROADS. KEEP THE MAIN SWITCH IN THE OFF POSITION UNLESS USING THE CRUISE CONTROL.

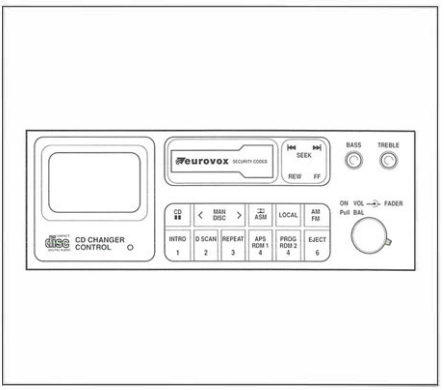
REMEMBER THAT TAKING YOUR FOOT OFF THE ACCELERATOR WHEN THE CRUISE CONTROL IS ENGAGED WILL NOT REDUCE VEHICLE SPEED. WHEN GOING UP OR DOWN HILLS (PARTICULARLY WHEN TOWING) IT IS POSSIBLE FOR THE VEHICLE TO GAIN OR LOSE SPEED, EVEN THOUGH THE CRUISE CONTROL IS ENGAGED. IF THIS HAPPENS WHILE GOING UP-HILL, MERELY DEPRESS THE ACCELERATOR PEDAL TO MAINTAIN THE DESIRED SPEED. IF GOING DOWN A HILL STEEP ENOUGH TO CAUSE THE VEHICLE TO GAIN SPEED, DEPRESS THE BRAKE PEDAL, WHICH WILL BOTH DISENGAGE THE CRUISE CONTROL AND SLOW THE VEHICLE DOWN.

IF A MALFUNCTION HAS DEVELOPED IN THE CRUISE CONTROL SYSTEM, HAVE THE SYSTEM CHECKED AND CORRECTED AS SOON AS POSSIBLE BY A HOLDEN DEALER.

RADIO, HORN, TILT STEERING

Radio, cassette

Refer to the operating instruction supplement in the glovebox for all information relating to the operation of your radio/cassette.



Horn

To activate the horn, press the horn symbols on the steering wheel pad.

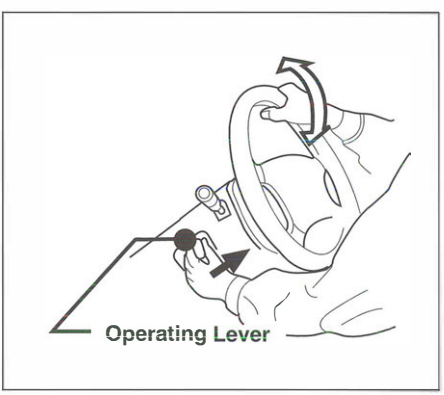
Tilt steering (if fitted)

The tilt steering lever is on the left side of the steering column.

To adjust, hold the steering wheel and pull the lever toward you. Move the wheel up or down, as required, and release the lever. Then, try moving the wheel up and down to ensure it is securely locked.

For your safety, do not adjust tilt steering while driving.

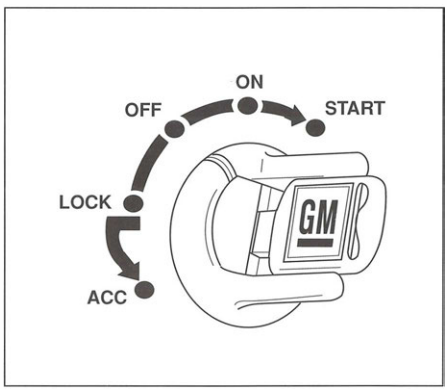
Also, do not use the upper-most position as a driving position. The air bag will not be as effective if the steering wheel is in this position. It is recommended that you use the upper-most position only for entry and exit.



IGNITION

CAUTION: Do not turn the engine off while the vehicle is moving or there will not be any power assist for brakes or steering. Never remove the key while the vehicle is moving as this will lock the steering.

Ignition/starter switch



ACC (accessories): The engine is off but accessories such as the radio still operate. To get to this position push in the key and turn it toward you. To avoid flattening the battery, avoid excessive use of accessories when the engine is not running. Note that in this position, the steering remains locked.

LOCK: Normal parking position. Accessories and engine are off. This position locks the ignition, transmission and steering. The key can only be removed at this position. To release the steering lock, insert the key into the switch and turn it to OFF, ON or START. Note that steering remains locked when the key is turned to the accessory position. If you have trouble turning the key to unlock the steering, turn the steering wheel slightly to the right or left while twisting the key clockwise.

OFF: The engine and accessories can be turned off without locking the steering. Use this position if you must have your vehicle in motion while the engine is off (for example, if your vehicle is being towed). If the ignition key is to be left in the OFF position for an extended period of time, it is recommended that you disconnect the battery cable from the battery to prevent discharging the battery.

ON: This is the position at which the engine is ready to start and all electrical systems are active. Do not leave the switch in the ON position for a prolonged period, unless the engine is running, otherwise the battery will discharge. This is also the driving position. When you release the key from START the switch will return to ON.

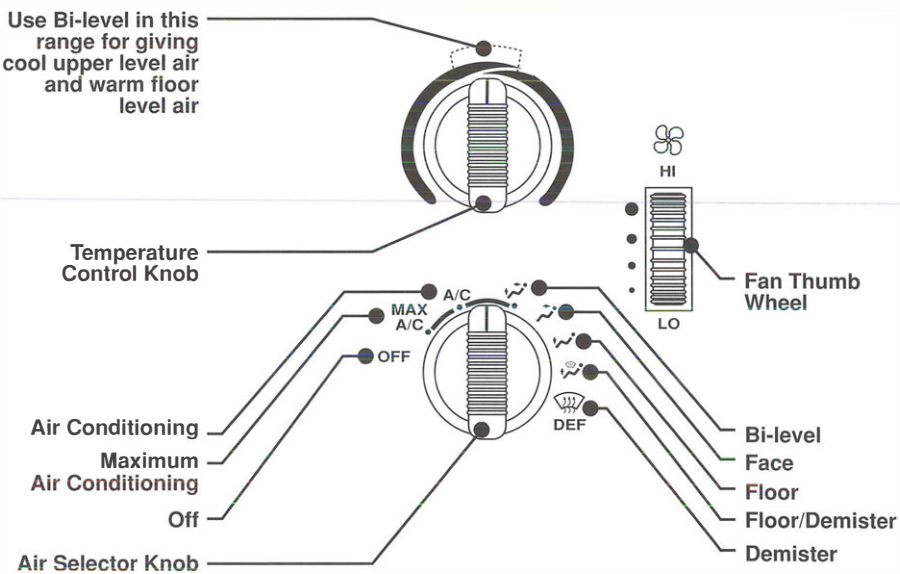
START: This is the position for starting the engine. The key should be released from this position as soon as the engine starts.

HEATING & AIR CONDITIONING

The vehicle features a flow-through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time. Fresh air is drawn into the vehicle while the vehicle is moving. Keep the bonnet and front air inlet free of obstructions such as leaves or snow. Also, keep the air path under the front seats clear of objects to help air circulate throughout the vehicle.

Outlets

There are outlets located in the centre and on the sides of the dash. The outlets can be swivelled up and down and have adjustable vanes which may be swivelled left and right to allow directional control of air flow. The outlets may also be closed. When you close an outlet, it will increase the flow of air coming out of any outlets that are open.



HEATING & AIR CONDITIONING (cont.)

Fan thumb wheel

The fan thumb wheel provides speed control of the blower fan. There are four fan speeds. Turn the wheel up toward **HI** for a higher fan speed, or down toward **LO** for a lower fan speed.

Temperature knob

The temperature knob regulates the temperature of the air entering the passenger compartment. Turn the knob clockwise for warmer air, anti-clockwise for cooler air.

Air selector knob

The air selector knob allows you to select different outlet combinations for the air entering the cabin of the vehicle. It also allows you to activate the air conditioner.

OFF This setting turns the system off. Some outside air will still enter the vehicle whenever the vehicle is moving forward.

MAX A/C This setting provides maximum cooling with the least amount of work. It recirculates much of the air inside your vehicle. Use it (with the temperature knob turned anti-clockwise) for quick cool-down on very hot days. Note that you should not use this setting for an extended period of time. It may cause the windows to fog up.

A/C This setting cools the air entering your vehicle and directs it through the face level outlets. Use it (with the temperature knob turned anti-clockwise) for normal cooling on hot days.

Use this bi-level setting on cool but sunny days to deliver warmer air to the floor and cooled air to the face level outlets (provided the temperature knob is moved away from the extreme hot or cold settings).

This setting directs the airflow through the face level outlets. The air conditioning compressor does not work in this setting, so use it when outside temperatures are mild and little heating or cooling is needed. It directs outside air into the vehicle.

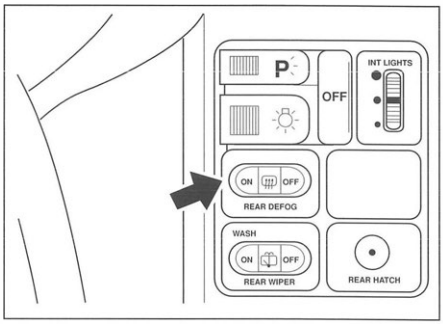
This setting (with the temperature knob turned clockwise) directs warmed air through the floor outlets, with a little going to the demister outlets. Use it on cold days.

This setting divides airflow equally between the floor and demister outlets. Use it (with the temperature knob turned clockwise) in cool, humid weather or when you have fog or ice on the windscreen.

DEF This setting directs most of the airflow through the demister outlets, and some through the floor outlets. Use it (with the temperature knob turned clockwise and the fan on high speed) to quickly remove fog or ice from the windscreen in extremely humid or cold weather.

REAR WINDOW DEMISTER

Rear window demister (if fitted)



The demister switch is located on the instrument panel, to the right of the steering column.

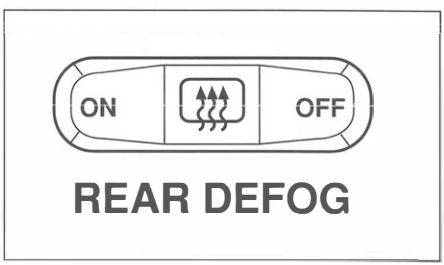
To turn on the rear window demister, press **ON** until the light in the switch comes on, then release it. The indicator light in the switch glows when the demister is in use, i.e. ignition and demister turned **ON**.

To avoid flattening the battery, you can turn the demister off by pressing **OFF** when the window becomes clear.

Otherwise, an automatic timer will turn off the demister after five to seven minutes.

If you need additional warming time, turn it on again.

Note that you should not attach tape or decals to the demister grid on the rear window. Also, do not use anything sharp on the inside of the rear window. Otherwise, the warming grid could be damaged.

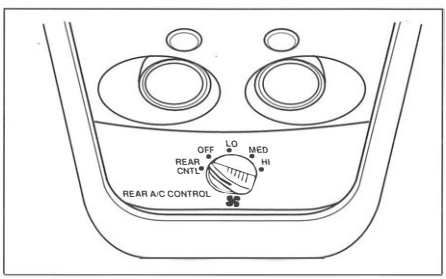


REAR HEATING & AIR CONDITIONING (if fitted)

Using the rear air conditioning system, the speed of air flow to the rear area can be controlled independently of the front climate control system.

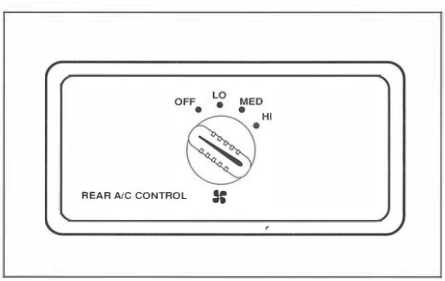
There are two overhead control panels that regulate this system.

The main control panel is located at the front of the overhead console.



The rear control panel is located above the second row seats.

In order for the rear control to work, the fan knob on the main control panel must be set to **REAR CNTL**. With the knob in this position, the second row passengers may adjust the rear control to suit their preference.



Fan knob: Turn this knob to **LO**, **MED** or **HI** to adjust the fan speed. Turn it to **OFF** to turn the fan off.

HEATING & AIR CONDITIONING OPERATING TIPS

Hot weather

For a "quick cool down" when first entering the vehicle on a hot day, first, open the windows to allow the hot air to escape. Then, switch the air conditioner on to **MAX A/C**, move the temperature knob to full cold and turn the fan to a high speed. Close the windows after a minute or two as the air conditioning works more effectively with the windows up.

It is recommended that when the interior cools down (approximately 10 to 20 minutes) you switch out of **MAX A/C** to another air conditioning setting (**A/C** or bi-level) to achieve and maintain best comfort conditions during extended driving.

The coolest temperature however, is achieved when **MAX A/C** is selected. This can be used in slow city traffic or when the vehicle is stationary in very hot weather. Occasionally select another setting to allow a greater amount of outside air to enter the vehicle.

Note that when the air conditioning is on, you may sometimes notice slight changes in your vehicle's engine speed and power. This is normal because the system is designed to cycle the compressor on and off to maintain the desired temperature.

Dust

When following another vehicle on dusty roads, or to prevent exhaust fumes or odours from entering into your vehicle, select the **MAX A/C** setting and make sure windows are closed.

When driving on un-sealed roads but where the dust is not airborne, use the face-level setting (with the windows closed) and the fan preferably on a high speed so that positive air pressure in the vehicle will prevent any dust entry.

Cold weather

The air conditioner also removes moisture from the air. Moving the temperature knob away from extreme cold ensures that the air will be reheated after it has been purified.

Therefore, if the side windows or windscreen fog up on a cold day, turn the fan knob to a high speed, select 'demist' and select a warm setting with the temperature knob. This will circulate warm, dehumidified air throughout the vehicle, defogging the windows.

Fuel consumption

When air conditioning is not needed, remember to turn the air conditioner off, as this will reduce fuel consumption.

Automatic transmission

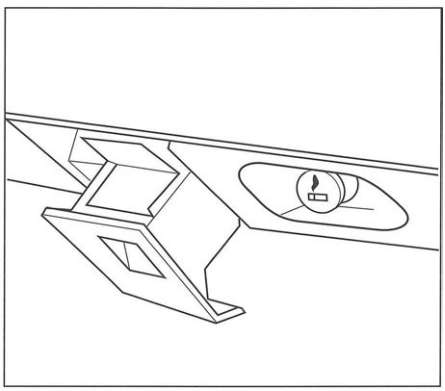
If your vehicle is stopped for long periods in hot weather with the engine running and the air conditioner operating, select **N** (neutral) or **P** (park).

Important

Once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes, even in Winter. This will lubricate the air conditioning system and prevent the seals from drying out.

LIGHTERS, ASHTRAYS, DASH STORAGE

Cigarette lighter



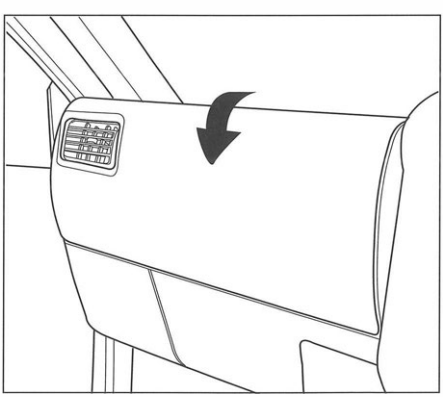
The cigarette lighter is located at the lower centre of the instrument panel. To use, press in the lighter knob. When the element is hot the lighter will automatically pop out, ready for use. To avoid damage to the lighter, do not keep pressure on it after pressing in to use.

Ashtray

The front ashtray is located to the left of the cigarette lighter. To open the ashtray, pull it all the way out. Push back in again to close. It is recommended that the ashtray be closed after use and that it be regularly cleaned out, by opening and pulling out the tray. If there is a release tab on the tray, you must lift it as high as possible before you can pull the tray out.

Refer Chapter 3 for rear ashtrays.

Glovebox



To open the glovebox, squeeze the lever at the top of the glovebox and lower the door. Push the lid shut to close.

Two cupholder depressions are provided on the inside of the glovebox lid for your convenience, but the glovebox should not be open while you are driving.

Instrument panel tray

The open storage compartment, located below the radio, can be used to store small items.

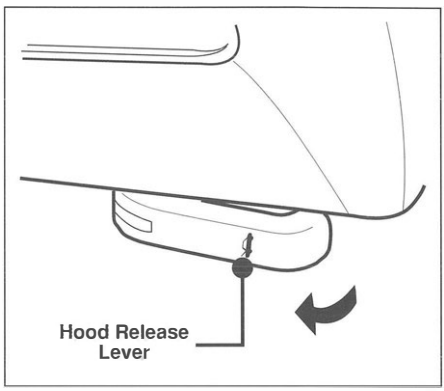
BONNET RELEASE, HATCH RELEASE

Bonnet release

To open the bonnet, pull the lever on the driver's side of the vehicle (beneath the dash) towards you.

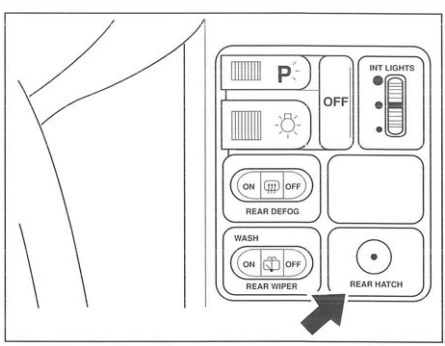
This allows the bonnet to release but it is prevented from opening by the safety catch. To open completely, go to the front, centre of the vehicle and release the safety catch. Fully open the bonnet and insert the support rod in the slot provided. For closing, return the support rod to its resting position and lower bonnet gradually to be finally dropped under its own weight. Before closing the bonnet, be sure all the filler caps are on properly.

Always check to be sure that the bonnet is closed by attempting to lift the bonnet.



Hatch release (if fitted)

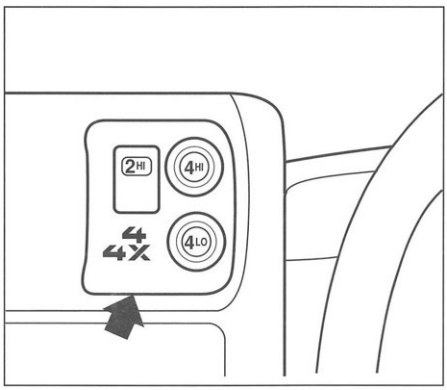
This button, located to the right of the steering column is used to open the rear tailgate glass from inside your vehicle. Refer "Tailgate" in Chapter 2.



ELECTRONIC TRANSFER CASE, FUSE BOX

Electronic transfer case controls

The Four Wheel Drive controls are located to the left of the steering column, above the heating and air conditioning controls. Refer Chapter 4.



Fuse box

The main fuse box is located on the side of the right end of the instrument panel. Refer Chapter 6.

CHAPTER 2

Doors & locks

Page

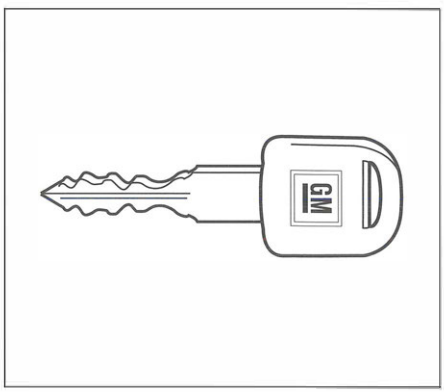
2-2 Keys
2-2 Side door locks
2-4 Keyless entry
2-5 Tailgate
2-6 Cargo doors

KEYS & SIDE DOOR LOCKS

Keys

This key operates all locks and ignition. Make a note of the key number and keep the key number and the spare key in a safe place, *not in the vehicle.*

In the event of the original keys being lost, a duplicate can be made by your Holden dealer, using your key code number.

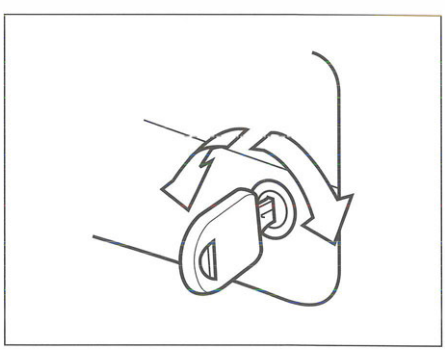


CAUTION: Do not leave children in the vehicle with the ignition key. They could operate power windows or other controls, and could even make the vehicle move. A child or others could be badly injured.

Manual door locks (side doors and rear door)

When leaving the vehicle:

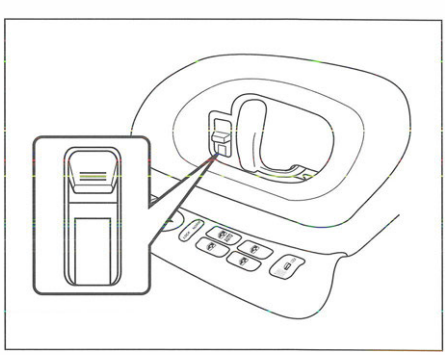
- Doors can be locked or unlocked with the ignition key. To open doors, unlock with key then pull out the door handle.



- To lock doors without using the key, slide down the lock lever inside the vehicle.

When remaining inside the vehicle:

- Slide the lock lever down to lock the door, slide up to unlock.



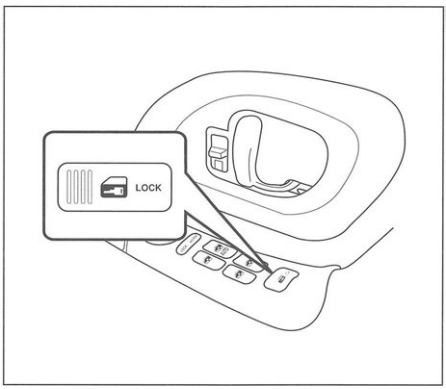
KEYS & SIDE DOOR LOCKS (cont.)

Electric door locks (if fitted)

All doors (side and rear) will unlock and lock simultaneously when either front door snib lock switch is pressed.

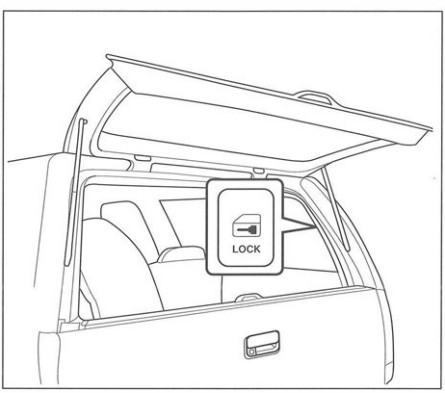
Press the side marked **LOCK** to lock the doors. Press the ribbed side of the switch to unlock the doors.

As a safety feature, the rear doors may not be fitted with electric door locks. If the are, however, the switch on each rear side door only works for that door's lock. It will not lock or unlock any other door.



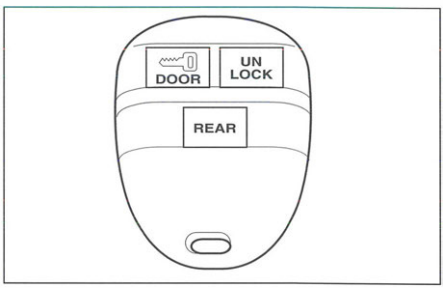
There may also be an electric lock switch located on the side pillar trim, just inside the rear cargo doors or tailgate. This switch can be used to lock or unlock all of the doors.

For information on opening or closing the tailgate or rear cargo doors, refer later in this chapter.



KEYLESS ENTRY (if fitted)

Using the Keyless Entry transmitter, the doors can be unlocked from about 1 m up to 9 m away from the vehicle.



To unlock the driver's door, press the **UNLOCK** button. The door will unlock and the interior lights will turn on for 40 seconds or until the ignition is turned on. If the button is pressed a second time within five seconds, all the remaining doors will unlock and the horn will chirp to acknowledge that the signal has been received.

Press the **LOCK** button to lock all the doors. The interior lights will turn on for two seconds as soon as all the doors are closed.

To automatically unlock the rear cargo doors or release the tailgate glass using the transmitter, press **REAR** twice within three seconds. Note, however, that for the transmitter to release the tailgate glass, the transmission must be in the **P** (Park) position. The interior lights will turn on for 40 seconds or until the ignition is turned on.

NOTE: Contact your Holden Dealer if you do not want the horn to chirp as a signal confirmation.

At times, you may notice a decrease in the transmitter's range. If the transmitter does not work, or if you have to stand closer to the vehicle for the transmitter to work:

- Check your distance from the vehicle to ensure that you are not out of the normal operating range. You may need to stand closer during rainy or snowy weather.
- Check your location. Other objects or vehicles may be blocking your signal. Take a few steps to the right or left, hold the transmitter higher and try again.
- Check to determine if battery replacement or transmitter resynchronisation is necessary. See the instructions that follow.
- If you are still having trouble, see your Holden Dealer for service.

NOTE: Each vehicle can have only four transmitters matched to it. If a transmitter is lost or stolen, a replacement can be purchased through your Holden Dealer. Be sure to take any remaining transmitters with you when you go to the Dealer so that they can all be matched to your vehicle using a new code.

Battery replacement

Under normal use, the transmitter's battery should last about two years. Use one, three volt CR2032 battery, or equivalent. To replace the battery:

1. Insert a small coin or flat-head screwdriver to separate the bottom of the transmitter from the top. Take care not to touch any of the circuitry in the transmitter. Static from your body may damage the transmitter.
2. Replace the battery. Make sure the positive (+) side of the battery is facing down.
3. Snap the top and bottom back together.
4. Test the operation of the transmitter. If it does not work, try synchronising the transmitter with the receiver. Follow the instructions below.

Synchronization

To resynchronize the transmitter, stand close to the vehicle and press and hold the **LOCK** and **UNLOCK** buttons simultaneously for at least five seconds. The door locks should cycle to confirm synchronisation. If they do not, see your Holden Dealer for service.

TAILGATE (if fitted)

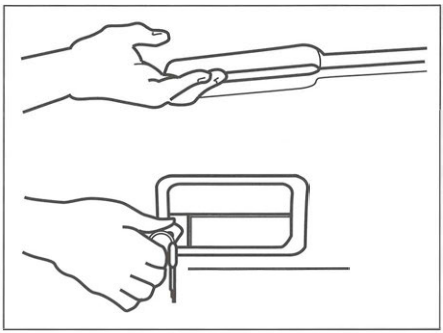
CAUTION: To prevent dangerous exhaust fumes entering the vehicle the tailgate should be closed when the the engine is running. However, if it is necessary to leave the tailgate open while transporting bulky cargo, all windows must be closed to avoid vacuum build-up; switch heater air outlet controls to the "face" setting and set the fan to the highest speed.

If your vehicle has a tailgate, you must raise the tailgate glass before you can lower the tailgate.

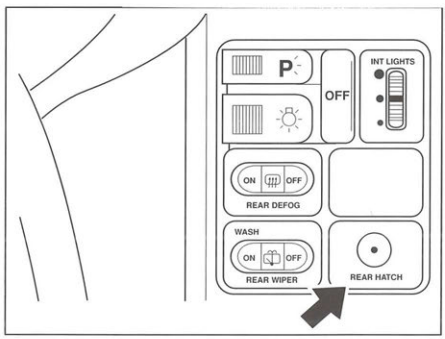
The tailgate may be locked or unlocked in the same way as the side doors, either with the ignition key or the lock button.

If electric locking is fitted, the tailgate will lock and unlock in conjunction with the side doors, refer previous page.

To open the glass from the outside, use your key. Turn your key clockwise in the lock to release the glass, then lift the glass up.

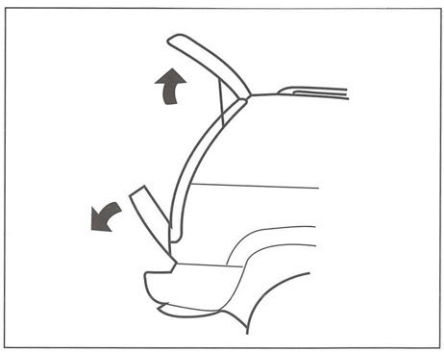


To release the glass from the inside, press the electric **REAR HATCH** release button located on the instrument panel to the right of the steering column. The shift lever must be in **P** (Park) or **N** (Neutral) for the release to work. Then, lift the glass up.



To lower the tailgate, lift up on the handle while pulling the tailgate toward you.

Close the tailgate before closing the rear glass. After closing the tailgate, make sure it is securely latched by pulling it toward you. After closing the rear glass, pull up on its handle to make sure it is locked.



CAUTION: For safety, you should check that the lock is operating correctly, after setting, by attempting to open the tailgate from the inside.

CARGO DOORS (if fitted)

CAUTION: To prevent dangerous exhaust fumes entering the vehicle the cargo doors should be closed when the the engine is running. However, if it is necessary to leave the cargo doors open while transporting bulky cargo, all windows must be closed to avoid vacuum build-up; switch heater air outlet controls to the "face" setting and set the fan to the highest speed

To open the rear cargo doors, you must open the right door first. If the door is locked, insert your door key in the lock and turn it anti-clockwise to unlock it.

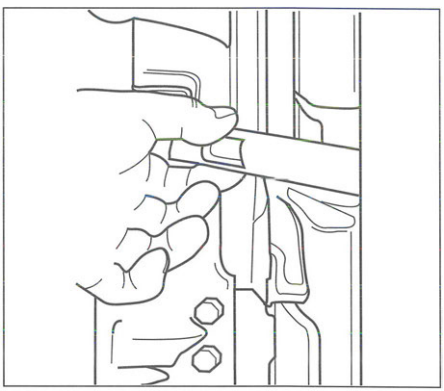
To open the right door, pull up on the handle and pull the door open.

To open the left door, first open the right door. Then, pull the handle of the left door edge out and pull the door open.

The left door must be closed before you can close the right door. Once closed, ensure that both doors are securely latched.

Note that the rear doors have a check assembly to keep them from fully opening during normal use. To fully open either rear door, you must release the check strap. To release the check strap:

1. Open the door partway until the white mark on the check strap is fully outside the door edge. If the end of the strap catches the pin on the door, the door is open too far.
2. Hold the strap at the white mark, pull the strap toward you and open the door all the way.



To re-engage the check strap, all you need to do is close the door. The strap will catch on the pin.

To lock the rear doors from outside the vehicle, put the key in the lock and turn it clockwise. The doors can also be locked from inside the vehicle using the electric door locks (if fitted).

Notes

CHAPTER 3

Body features

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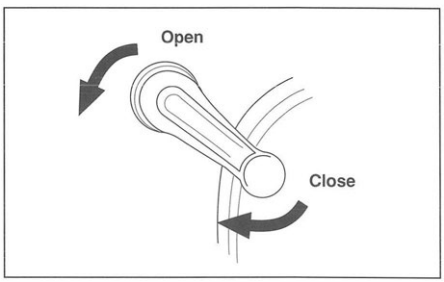
3-22 Park brake
3-23 Centre console
3-24 Overhead console
3-25 Garage door opener
3-26 Storage
3-27 Cupholders, visors, cargo tie-downs
3-28 Luggage carrier
3-29 Antenna, assist grips, ashtrays, lighter

WINDOWS

Manual windows (if fitted)

Turn the regulator handle to raise or lower the door windows.



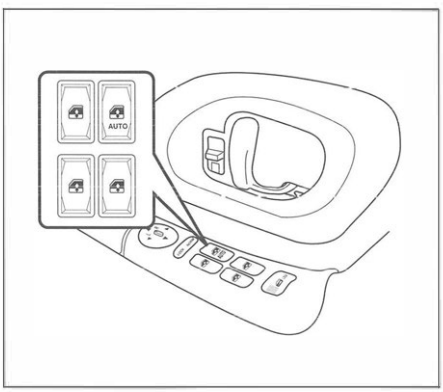
Electric windows (if fitted)

The electric windows are operational when the ignition is turned to ON or ACC.

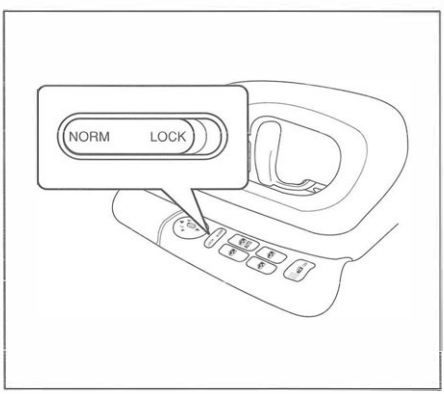
The main control switches are on the driver's door armrest, which contains a 'lock out' button plus one switch for each window. There is only one switch on each passenger door armrest, which controls only the window for that door.

Push the front section of a switch to close the window, or push the rear section of a switch to open the window.

In addition, the driver's window is fitted with 'auto down.' This means that if the rear section of the switch is tapped for less than one second the window will open in small increments. Continue tapping the switch until the window is at the desired position. If the rear section of the switch is pressed for one second or more, however, the window will completely open even after the finger is removed from the button. To stop the window while it is opening, tap the opposite side of the switch.



When activated, the lock out switch on the driver's door armrest prevents passengers from operating the rear power windows using the rear controls. Press **LOCK** to activate the lock out feature. Press **NORM** to deactivate it. Note that the lock button does not affect movement of the driver's window.

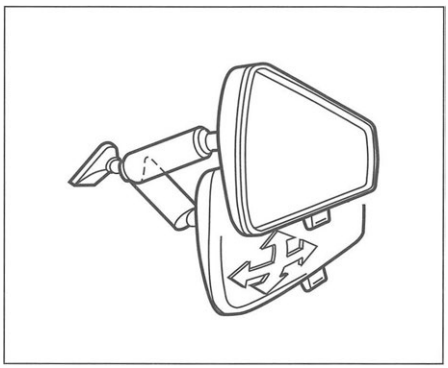


Tailgate glass

Refer "Tailgate" in Chapter 2.

INSIDE MIRRORS

Manual inside rearview mirror (if fitted)

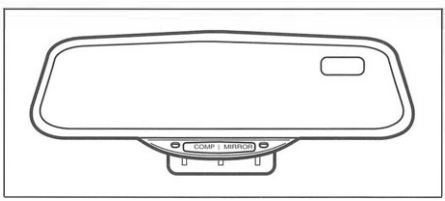


Move the mirror right/left or up/down to gain the required angle.

The anti-glare lever on the lower edge of the mirror enables a reflector to be used during night driving. This reduces glare at night from vehicles that are behind you.

During normal daylight operation, the lever should be set forward. To reduce glare at night, move the lever towards you.

Automatic inside rearview mirror with compass (if fitted)



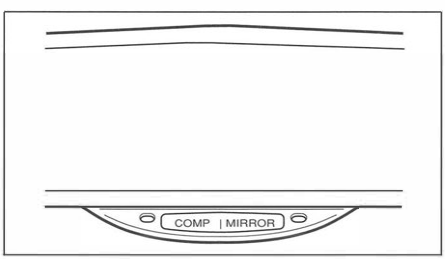
NOTE: Do not spray glass cleaner directly onto the mirror. Fluid may enter the mirror housing and damage the compass. Use a dampened cloth or paper towel to clean the mirror.

Your vehicle may be fitted with the fully automatic inside rearview mirror which has a **COMP/MIRROR** button at the base of the mirror. This is a light-sensitive mirror with a compass display for your convenience.

Light sensitive mirror

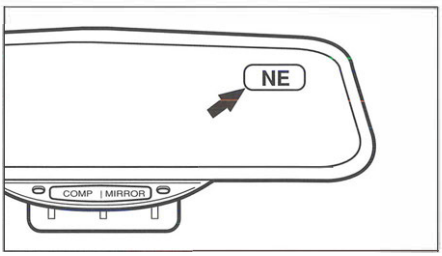
When on, the light-sensitive mirror automatically dims to the proper level to minimize the glare from lights behind you after dark.

To turn this feature on, press and hold **MIRROR** for three seconds. To turn it off, press and release **MIRROR**. The indicator light to the right of the button will turn on or off to indicate that this feature has been activated or deactivated.



INSIDE MIRRORS cont.

Compass display



Press **COMP** (with the ignition on) to turn the compass on or off. As you are driving, **N** (North), **NE**(North East), **E** (East), **SE** (South East), **S** (South), **SW** (South West), **W** (West) or **NW** (North West) should appear on the display to show your vehicle's direction.

Strong magnetic fields (from various magnetic objects on the vehicle) may interfere with the compass reading.

Remove these objects. If **C** appears on the display, the compass may need calibration.

Compass calibration

If the letter **C** appears in the window, the compass needs calibration.

There are two ways to calibrate your compass:

1. When it is safe to do so without disturbing other drivers, drive your vehicle in 360° circles at a speed of 8 km/h or less, until the display reads a direction.
2. Drive your vehicle on your everyday routine.

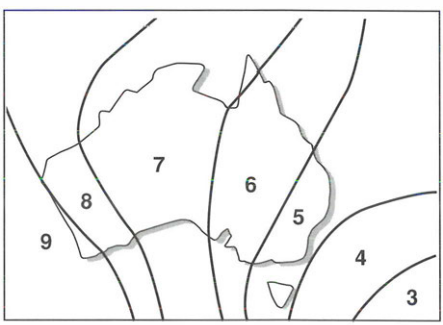
Compass variance

Compass variance is the difference between the earth's magnetic north and the true geographic north. Your vehicle's compass should be pre-set to your zone.

If your vehicle is taken outside this zone, it may be necessary to adjust the compass to compensate for variance.

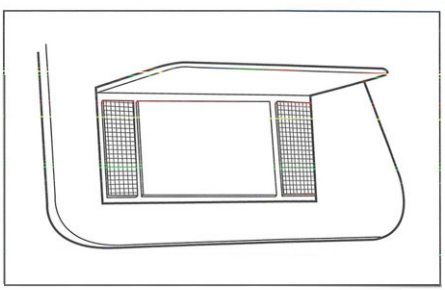
To adjust for compass variance:

1. Press and hold **COMP** for three seconds until a zone number appears in the display.
2. Find your current location and variance zone number on the zone map.
3. Press **COMP** until the correct zone number appears in the display, then release it. The display will show a compass direction within a few seconds.



Vanity mirrors (if fitted)

In some vehicles, there are vanity mirrors located on the sun visors. When the cover is lifted, the lights around the mirror will turn on. The lights will turn off when the cover is closed. Refer later in this chapter for information on sun visors.

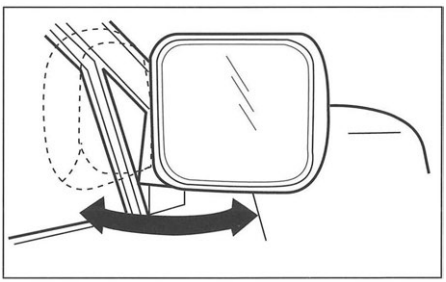


OUTSIDE MIRRORS

The left outsie rear-view mirror may be convex shaped to provide a wider view. Objects will appear further away than they actually are.

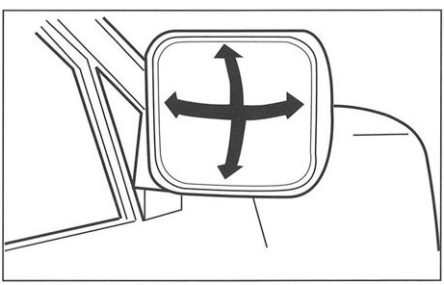
Mirror foldback (if fitted)

Some vehicles are fitted with folding outside mirrors. You should fold the mirrors inward to prevent damage when going through a carwash or narrow streets.



Manual outside rear-view mirror(s) (if fitted)

Adjust the outside rear-view mirror so you can just see the side of your vehicle in the side of the mirror. This helps you determine your relation to objects seen in the mirror. When selecting the most suitable angle ensure that the driver's head is in the normal position for driving, then adjust the mirror angle to suit.



Electric mirrors (if fitted)

The switches for the electric mirrors are located on the driver's door armrest.

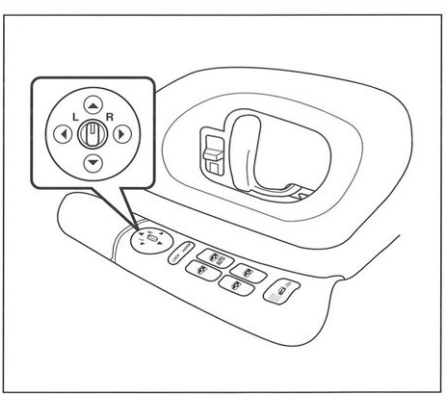
Moving the mirrors forcibly by hand will damage them.

Mirror angle

Turn the switch in the centre of the control to **L** to choose the left mirror or to **R** to choose the right mirror.

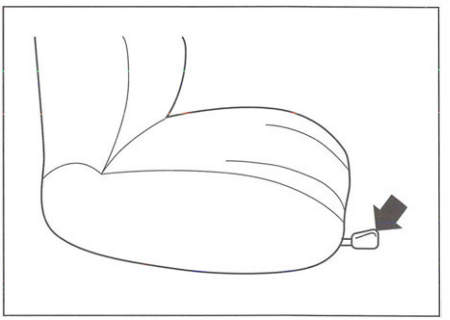
Push the appropriate arrows on the outer ring of the control to move the selected mirror in the direction desired.

It is not advisable to adjust the mirrors while driving.



FRONT SEATS

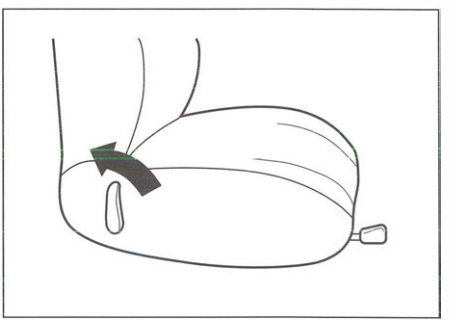
Forward and rearward (if fitted)



Slide the lever (at the front of the seat) to one side to unlock the seat, then slide the seat forward or backward as required. Release the lever. After adjusting the seat position, try to move the seat forward and backward to be sure the seat adjusters have been latched.

Do not adjust the driver's seat while the vehicle is moving.

Reclining backrest (if fitted)

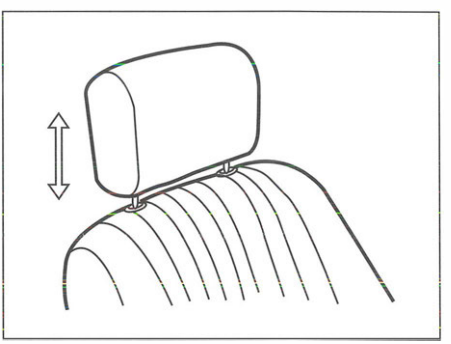


The angle of the back of the seat can be adjusted by moving the lever (located on the door side of the seat) rearward. Once the seatback is adjusted, release the lever.

CAUTION: To avoid reducing the effectiveness of seat belts, seats should only be fully upright or very slightly reclined when the vehicle is moving. The fully reclined position should only be used when the vehicle is stationary.

To return the seatback to the fully upright position, move the lever rearward but do not apply any pressure to the seatback. It will return to the upright position by itself.

Head restraints



This safety feature is not intended as a head rest. It is provided for the reduction of possible whiplash neck movement in an accident. Do not drive the vehicle with the head restraint removed.

To adjust the height of the head restraint, pull up or push down, as required.

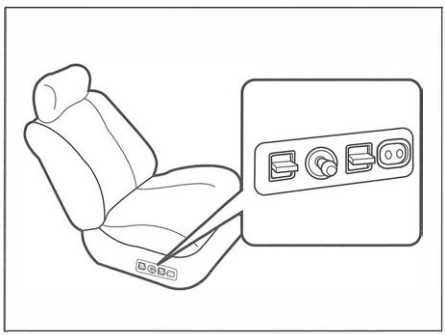
The upper edge of the head restraint should be approximately at eye level - not at neck level.

CAUTION: If a head rest is not installed on the seatback or properly stored in the vehicle, it could be thrown about in a crash or sudden manoeuver. Someone could be injured. Make sure that head restraints are always secured in place so they do not become a hazard.

FRONT SEATS cont.

Power seats (if fitted)

Ensure hands and feet are clear when adjusting the seats. Also ensure nothing is in the way of the seats when they are being adjusted, including seat belts and belt buckles. Do not adjust the driver's seat while the vehicle is moving.



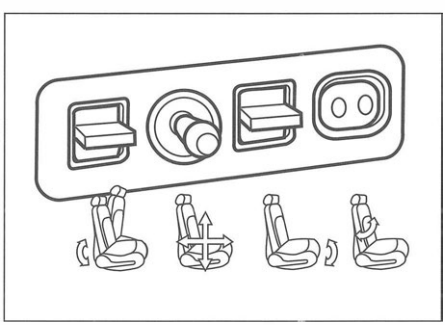
Forward/rearward and up/down (both front seats)

Each front seat can be moved forward or backward with the centre knob on the door side of each front seat. Move the knob forward or backward as required.

This knob can also be used to make the whole seat go up or down. Move the knob up or down as required.

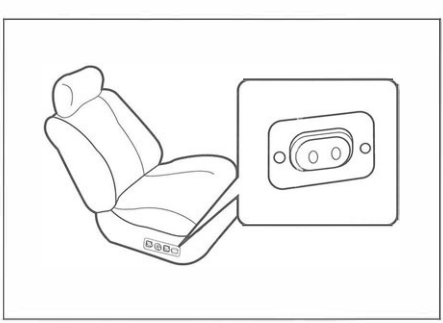
Tilt control

The front or rear part of the seat can be independently raised or lowered. Tilt the front switch up or down to raise or lower the height of the front part of the seat. Tilt the rear switch up or down to raise or lower the height of the rear part of the seat.



Lumbar adjustment (if fitted)

With this switch, you can increase or decrease back support by inflating or deflating an area of the lower seatback. To increase support, press and hold the front part of the switch. To decrease support, press and hold the rear part of the switch. Release the switch when the lower seatback is giving the desired level of support.



SECOND ROW SEATS

If the vehicle is fitted with the second row seats that can be folded or converted to create a load floor for additional cargo space, carefully follow the folding and load floor instructions below.

Do not permit anyone to ride in the rear of the vehicle while the seat is folded down. All occupants should be properly restrained by a seat belt while the vehicle is moving.

After restoring the seat to the upright position, check to ensure that it is securely locked into place.

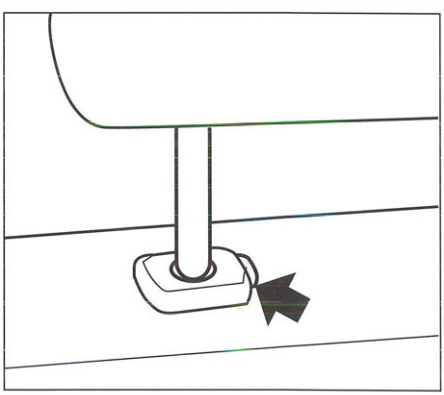
CAUTION: To avoid injury, take care of your hands and feet when folding/converting seats. Also, to avoid injury from passing vehicles, always avoid standing on the right hand side of the vehicle (if the vehicle is parked at the curb) when converting the seats.

Folding seat (if fitted)

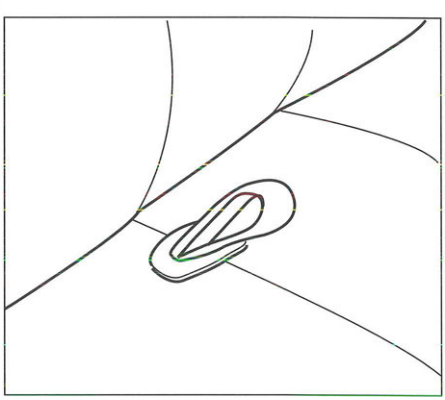
Either side of the second row seat may be folded down to give you more cargo space.

Before folding, place the latch portion of the centre seat belt in the centre armrest so that it will be out of the way when the seat is folded and also will be easily available for passengers to use when the seat is returned to the passenger position. Also, make sure that nothing is under or in front of the seat.

1. Push the release buttons at the bottom of each head restraint post and slide the head restraints out of the tubes to remove them. Set the head restraints aside for now.



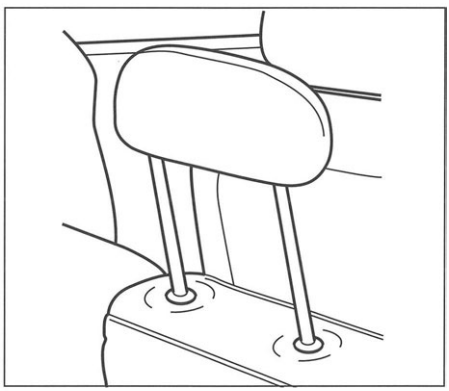
2. To fold the seat, pull up on the strap loop at the rear outer edge of the seat cushion. Then, pull the seat cushion up.



SECOND ROW SEATS cont.

3. After folding the seat cushion forward, push down on the lever at the side of the seatback and fold the seatback forward until it is flat.

4. Stow the head restraints by sliding them into the rear of the seatback. Make sure the posts go in all the way.

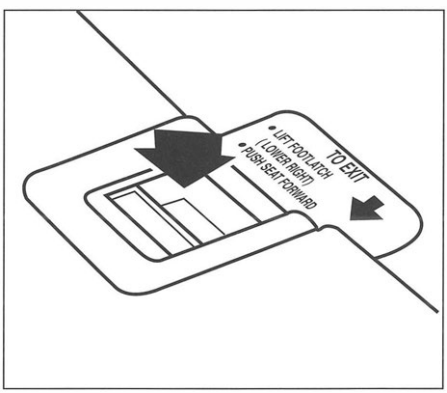


To return the seat to the passenger position, lift the seatback up and push rearward until it latches. Return the head restraints to their original positions and lower the seat cushion until it latches into position. Pull forward on the seatback and up on the cushion to make sure the seat is locked into place. Remove the latch plate portion of the centre seat belt from the armrest and place it on the seat so that it will be available for the centre rear seat passenger to use.

Creating a load floor (if fitted)

To create a load floor, release the panels from the seatback by pushing rearward on the latch and fold them out to cover the rear seat footwell.

To return the seat to the passenger position, lift the load floor panels and latch them into the seatback.



SECOND ROW SEATS cont.

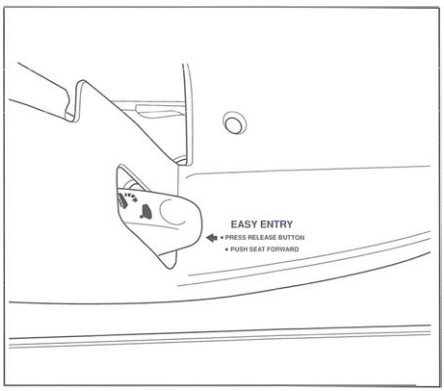
Easy entry to third row seat (if fitted)

The right side of the second row seat has a feature that makes it easy to get in and out of the third seat (if fitted).

To operate the seat, press down the release button at the side of seat and push the seatback toward the front of the vehicle.

When you do, the seat bottom will release. Just pull the seat forward until it stops.

To return the seat to its regular position, push the seatback to its upright position and push the whole seat rearward until it latches. Try to move the seat to ensure that it is securely locked into place.

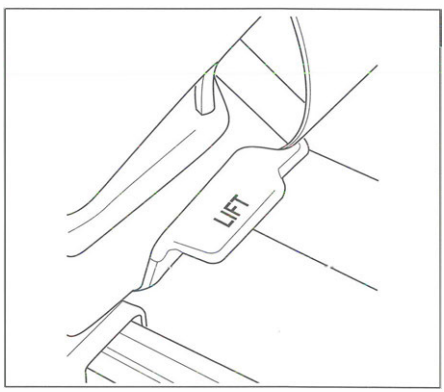


Easy exit from third row seat (if fitted)

There is a foot-operated release lever for rear seat passengers to use when getting out of the third seat.

To release the easy entry second seat, lift up on the top of the release lever with your foot. Push the top of the seatback forward and tilt it toward the front of the vehicle.

To return the seat to its regular position, push the seat back to its upright position and push the whole seat rearward until it latches. Try to move the seat to ensure that it is securely locked into place.



Armrest (if fitted)

On some models, a rear seat armrest may be provided. Just pull down the armrest when desired. The front of some armrests may be fitted with two cupholders and a tissue storage box.

Head restraints (if fitted)

To adjust the height of the head restraint, pull up or push down, as required.

The upper edge of the head restraint should be approximately at eye level - not at neck level.

CAUTION: If a head rest is not installed on the seatback or properly stored in the vehicle, it could be thrown about in a crash or sudden manoeuver. Someone could be injured. Make sure that head restraints are always secured in place so they do not become a hazard.

THIRD ROW SEATS (if fitted)

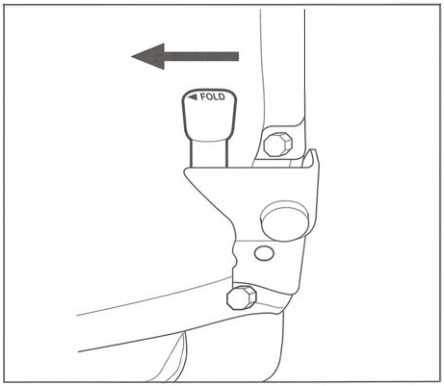
For easy entry to and exit from the third row seats, refer "SECOND SEAT" earlier in this chapter.

The third row seats are suitable for one person on each seat position; each position being supplied with its own seat belt. If the vehicle is equipped with the removable third row seat, follow the instructions in the procedures below to remove or install the seat. Removing the seat provides you with additional cargo space.

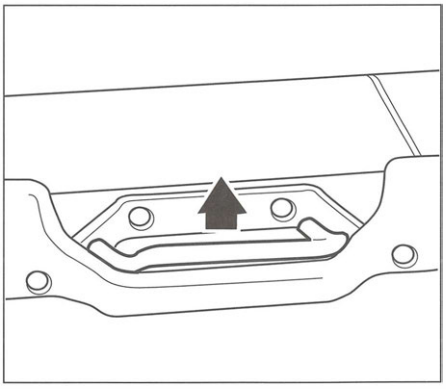
CAUTION: To avoid injury, take care of your hands and feet when removing/installing seats. Carefully follow the instructions. Also, to avoid injury from passing vehicles, always avoid standing on the right hand side of the vehicle (if the vehicle is parked at the curb) when converting the seats.

Removing

1. Move the seatback release lever, at the right rear of the seat, toward the centre of the vehicle and fold the seatback forward into the seat cushion.



2. To unlatch the seat from the floor, pull up on the centre release handle at the rear of the seat and lift the rear seat up, off the floor.
3. Turn the seat sideways and take it out of the vehicle.



THIRD ROW SEATS (if fitted) cont.

Installing

Reverse the above procedure to install:

- take the seat into the vehicle sideways
- turn seat to forward position
- set seat down with the latches over the hooks in the floor
- pull up on the centre release handle and let seat drop into place
- release handle and ensure that latches close and seat is locked in place
- move seatback release lever toward the centre of the vehicle and raise the seatback.

Always ensure the seat leg is firmly attached to the floor and the seatback is locked upright.

Reconnect the outside passenger seat belts

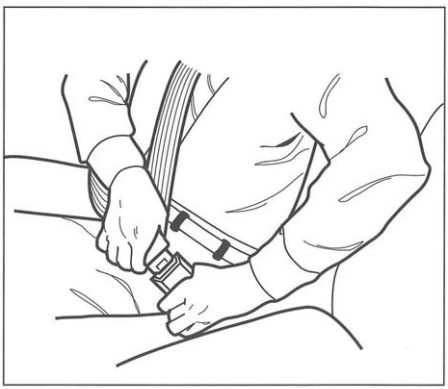
CAUTION: A seat belt that is twisted or improperly attached will not provide the protection needed in an accident. After re-installing the seat, always check to ensure that the seat belts are not twisted and are properly attached.

SEAT BELTS

Australian law requires that the driver and all passengers be properly restrained at all times with the seat belts provided in the car. Failure to do so could increase the chance of injury and/or the severity of injury in accidents.

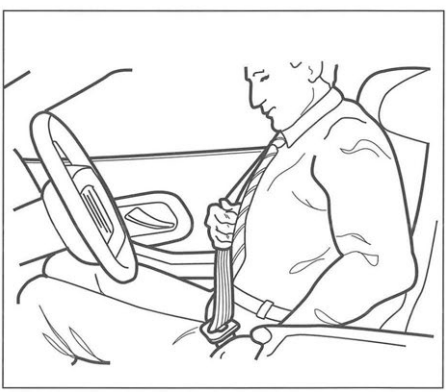
Retractor belts

To fasten, pull the metal tongue across your body and clip it into the appropriate buckle. Make sure the belt is not twisted. When the metal tongue has locked safely into place you will hear a "click". Make sure the release button on the buckle is positioned so that it is easily accessible should you ever need to quickly unbuckle the belt.

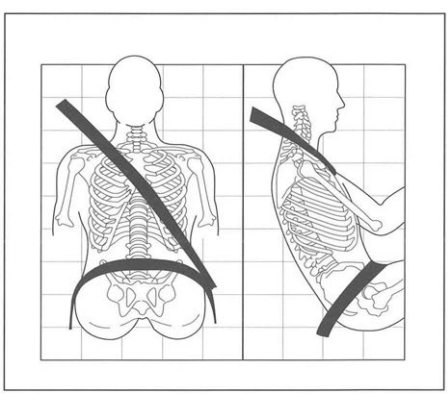


After fastening, settle the belt by running your hand under the belt starting at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

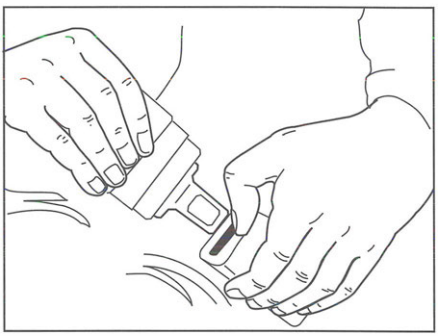
The lap section should be worn as low as possible on your hips, not on your waist.



Make sure the sash and lap sections of the belt are free from twists and are fitting firmly. The sash part of the belt must be worn over the shoulder at all times.



SEAT BELTS cont.

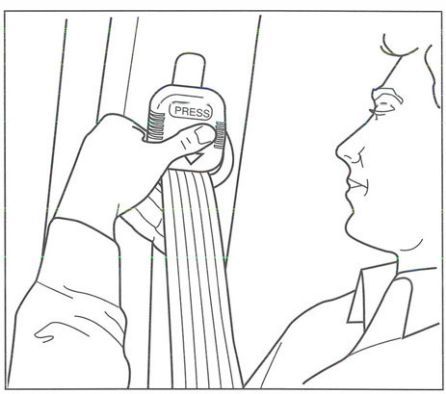


The "emergency-locking retractor belt" allows you to move while the vehicle is travelling normally but will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To undo the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

On all passenger seats (not the driver seat) with retractor belts, the seat belt will lock if pulled out all the way. If it does, let it go back all the way and start again.

Front seat belt height adjust (if fitted)



The seat belt is anchored to the vehicle near your shoulder. The position of anchorage can be moved to different heights.

To move the height adjuster down, push in at the word **PRESS** and slide the adjuster down to the desired position. The adjuster can be moved up just by pushing on the shoulder belt guide.

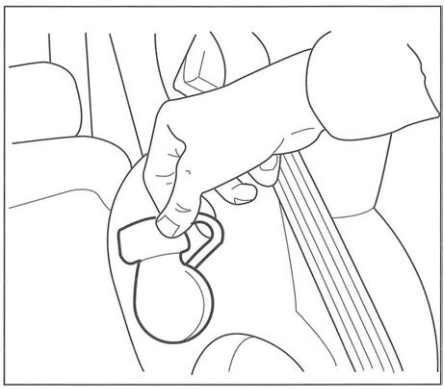
After it is set to the proper height, try to move the adjuster down (without pushing in at the word **PRESS**) to make sure it is locked in position.

Short people should select a low anchor position, tall people a higher one. This will ensure, for both safety and comfort, that the webbing of the seat belt is centred on the shoulder. The belt should be away from your face and neck, but should not be falling off your shoulder. For your safety, the driver's side shoulder anchor should not be adjusted while the vehicle is in motion.

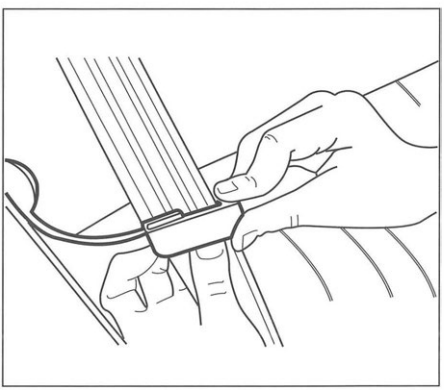
SEAT BELTS cont.

Comfort guides (if fitted)

Some outside rear passenger seats may be fitted with sash belt comfort guides for children or small adults. These guides pull the sash away from the neck and head. To install a comfort guide on a sash, remove the guide from its storage clip on the side of the seatback.



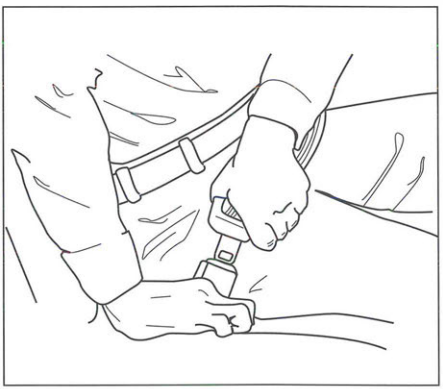
Slide the guide under and past the sash. The elastic cord must be under the belt. Then, place the guide over the belt and insert the edges of the belt into the slots on the guide. Ensure the belt is not twisted.



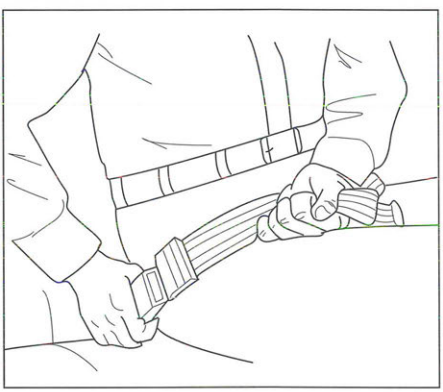
SEAT BELTS cont.

Non-retracting type lab belts

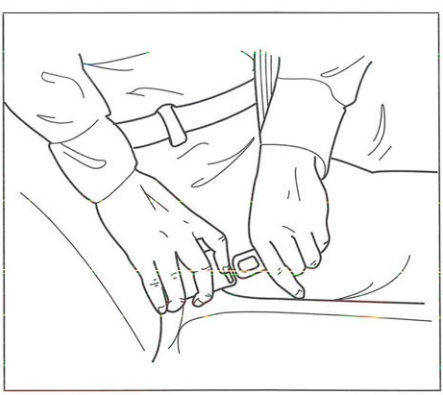
To fasten this type of seat belt, bring the latch plate across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". Make sure the belt is fitting firmly across the lower hip area and not across your waist. Also, make sure the belt is not twisted and that the release button is positioned so that it is easily accessible should you ever need to quickly unbuckle the belt.



To shorten or lengthen the seat belt: Tilt the latch plate at right angles to the seat belt webbing and pull the webbing through the belt adjuster as required.

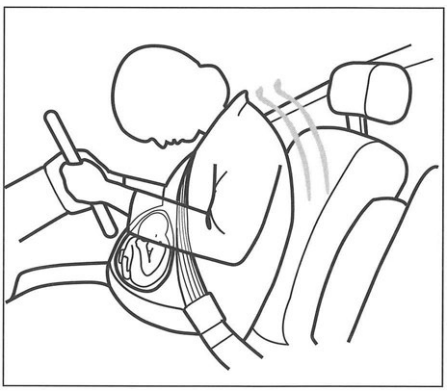


To release, press the button on buckle.



SEAT BELTS cont.

Seat belt use during pregnancy



Seat belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear seat belts.

A pregnant woman should wear a lap-shoulder belt, and the lap portion should be worn as low as possible throughout the pregnancy.

The best way to protect the foetus is to protect the mother. When a seat belt is worn properly, it is more likely that the fetus will not be hurt in a crash. For pregnant women, as for anyone, the key to making seat belts effective is wearing them properly.

SEAT BELTS cont.

Australian law requires that the driver and all passengers be properly restrained at all times with the seat belts provided in the car. Failure to do so could increase the chance of injury and/or the severity of injury in accidents.

WARNING:

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious.

Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.

SEAT BELTS cont.

Infant and child restraints

CHILDREN SHOULD BE RESTRAINED AT ALL TIMES WHEN RIDING IN A MOTOR VEHICLE.

In some States it is law that children must be belted in, whenever they are travelling in a vehicle in which seat belts are installed. CHILDREN ABLE TO SIT UP should be restrained with regular seat belts or an approved child restraint.

Where children are restrained with the regular seat belt and it is desired to raise their seating position this is to be done only by means of a support which is retained by the belt. NEVER USE A LOOSE CUSHION AS THIS COULD ALLOW SERIOUS INJURY IN THE CASE OF A VEHICLE COLLISION.

Child restraint anchorages

Your vehicle has 2 anchor fittings for child restraints, located below the second row seat cushion.

WARNING: Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.

Only approved child restraint harnesses should be used on anchorage points. See your Holden Dealer for advice about the various types of approved child restraints available.

INFANTS UNABLE TO SIT BY THEMSELVES should be carried in an approved child seat restraint.

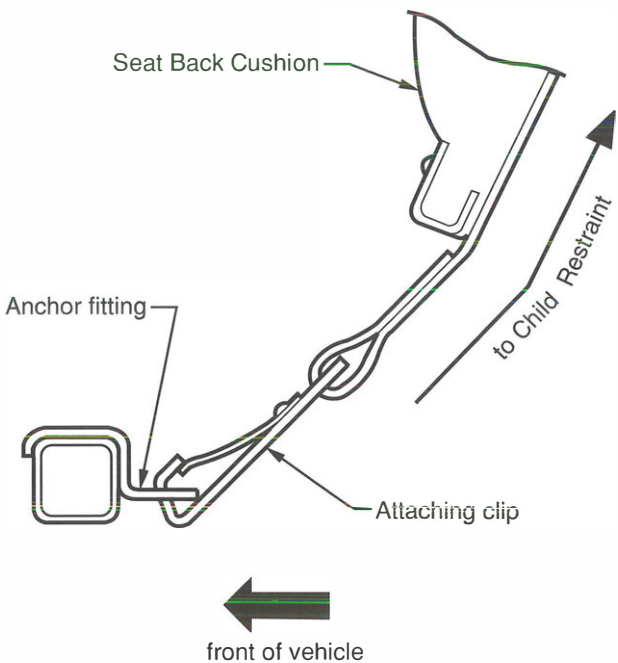
CHILD RESTRAINT ANCHORAGES

The illustration below shows how to install attaching clips for child restraints to this vehicle.

CAUTION: The anchor fitting is only applicable to child restraints approved to Australian Standard AS 1754-1991 (and subsequent amendments).

The anchor fitting is not applicable to older child restraints, not complying with Australian Standard AS 1754-1991, as the older child restraints may not attach securely to this type of anchor.

Typical Chid Restraint Anchor
Fitting and Attaching clip



INTERIOR LIGHTS

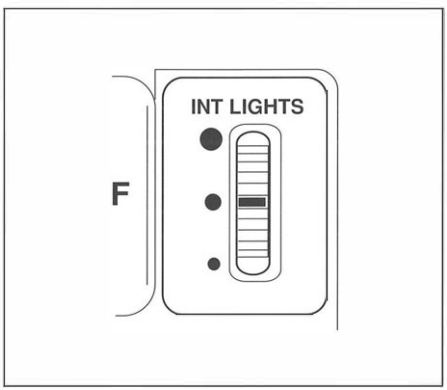
NOTE: To prevent flattening the battery, it is advisable not to leave lights switched on for an extended period of time while the engine is off.

Instrument dimmer

The instrument panel dimmer switch is located next to the headlight switch to the right of the steering column.

Rotate the thumb wheel up or down to adjust the intensity of the instrument lights.

Rotate the thumb wheel to the full up position (with the vehicle doors closed) to turn on the dome lights.



Dome lights and illuminated entry

The dome lights will automatically switch on when a door is opened and will switch off shortly after all doors are closed or when the ignition is turned on.

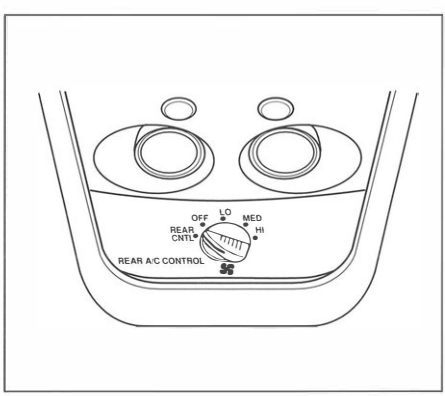
The lights will also come on when the instrument dimmer thumb wheel is rotated to the full up position.

NOTE: Always ensure all doors are fully closed, as an unclosed door will leave the light turned on, and so may flatten the battery.

Reading lights (if fitted)

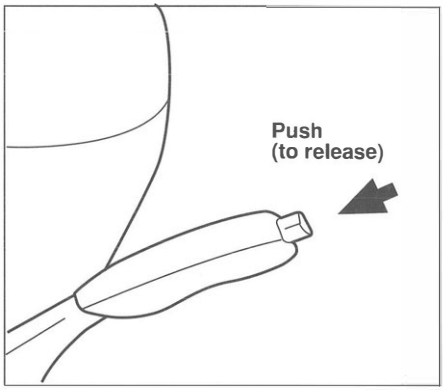
Reading lights are fitted near the main and second row rear air conditioning control panels. Press the button next to the light to turn a light on or off.

The lights can be adjusted to point in the direction desired.



PARK BRAKE

The park brake lever is between the front seats.



- To apply, hold the regular brake pedal down and pull the lever straight up without pressing the release button.
- When the ignition switch is turned to ON, a symbol on the instrument panel will indicate that the park brake is not fully released.
- To release, pull the lever slightly upwards (if necessary), push in the release button on the end of the lever and whilst depressed, lower the lever all the way down.
- Never drive the vehicle with the park brake applied.
- If you park your vehicle on a grade, set the parking brake before shifting the transmission into **P** (Park).

CENTRE CONSOLE

Centre console

Main compartment

The centre console is located between the two front seats. To open it, lift the latch handle and swing the lid open.

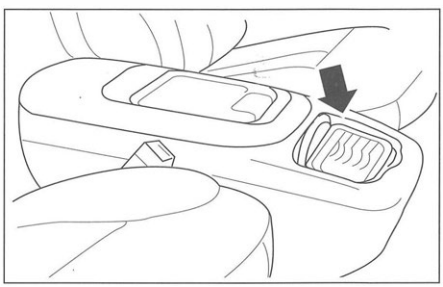
To close, push the lid down.

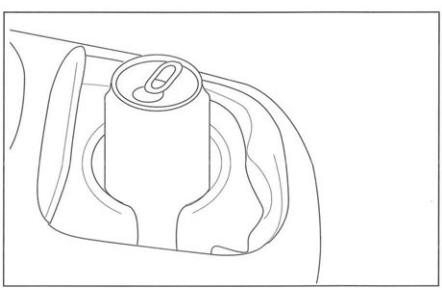
Front compartment

The front compartment of the centre console holds one of two interchangeable trays. One tray is a cupholder. The other tray is a cassette/compact disc holder.

To remove a tray, press back on the front of the tray and then lift it up.

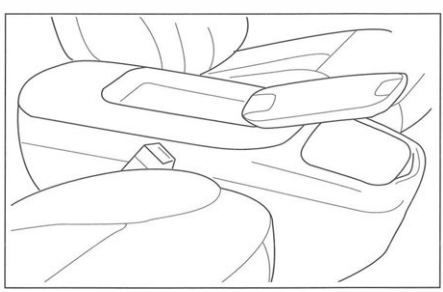
To insert a tray, place it in the compartment and engage the rear tabs. Then, press back on the front of the tray and press the tray into place.





Memo pad holder (if fitted)

The memo pad holder is attached to the top of the centre console. Use it to hold pads of paper or similar items.

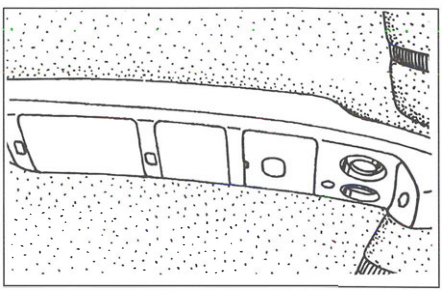


Second row passenger cupholders and drawer

A cupholder tray and a drawer are fitted on the rear side of the centre console. To open the cupholder tray, swing it out to the left. To open the drawer, just pull it straight out.

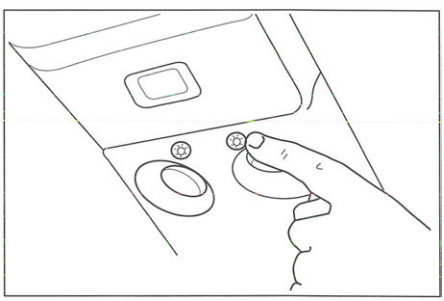
OVERHEAD CONSOLE

The overhead console is fitted with map lights. Some models are also fitted with a garage door opener compartment, two storage compartments and the main control panel for the rear heating and air conditioning system.



Map lights

Refer "Interior lights" earlier in this chapter.

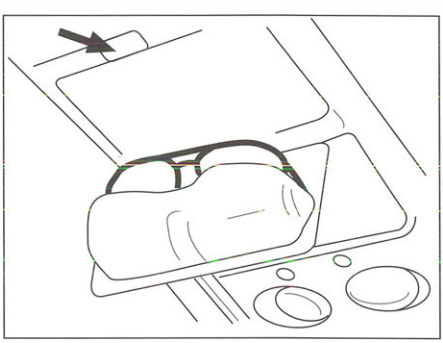


Rear heating and air conditioning controls (if fitted)

Refer Chapter 1.

Storage compartments (if fitted)

The centre compartment is for eye glasses. The rear compartment holds any small items. Press the release button to open a compartment.

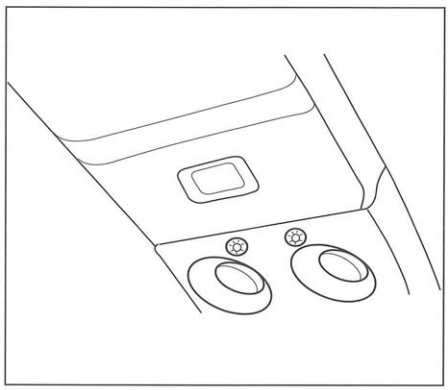


GARAGE DOOR OPENER

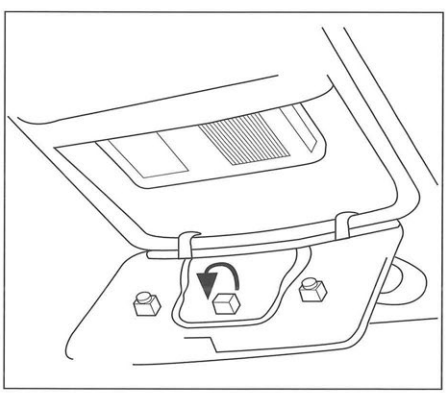
Garage Door Opener Compartment

The front compartment holds the garage door opener. Press the release button to open the compartment lid.

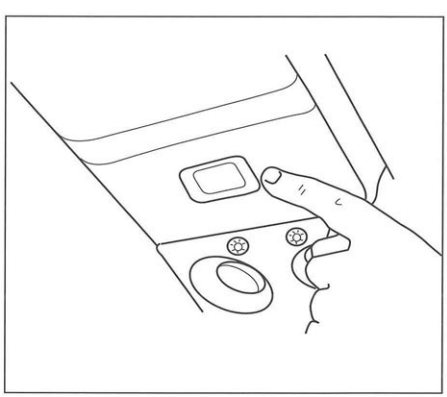
Remove the protective backing from the hook and loop and press it to the back of the garage door opener, as close to the centre of the opener as possible. Centre the garage door opener button over the compartment lid button and press the opener into place.



Add the pegs, located on the inside of the compartment lid, to the compartment lid button one at a time until the button contacts the garage door opener button when the compartment lid is closed.



Test the operation of the opener by pressing the button with the compartment lid shut. Adjustthe position of the garage door opener and add or remove pegs, as needed, until the opener operates properly. You should only have to press the button slightly to operate the opener.



STORAGE

Glove box

Refer Chapter 1.

Instrument panel tray

Refer Chapter 1.

Centre console

Refer "Centre console" earlier in this chapter.

Overhead console

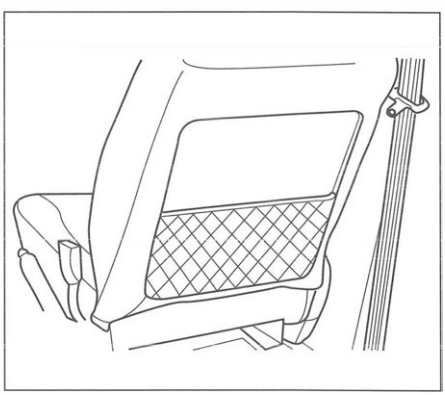
Refer "Overhead console" earlier in this chapter.

Rear storage compartment (if fitted)

The rear storage compartment is located in the rear cargo area, in the side trim panel.

Storage pockets (if fitted)

There may be front seatback storage pockets provided to store small items. Whenever possible, loose items should be secured as they can become flying projectiles in accidents.



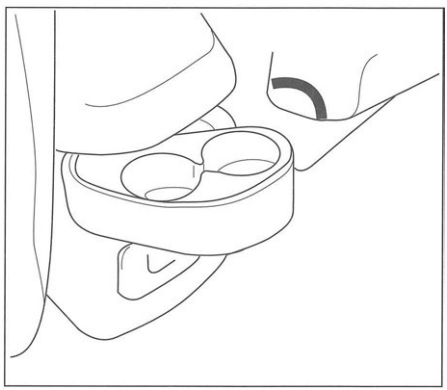
Convenience net

The convenience net can be used to secure small items, such as shopping bags, in the rear cargo area. It may be stored in a pouch attached to the spare tyre.

CUPHOLDERS, VISORS, CARGO TIE-DOWNS

Cupholders

The vehicle is fitted with several cupholders. A cupholder tray insert can be placed in the front compartment of the centre console for the front seat occupants to use. For the second row passengers, there is a cupholder that swings out of the rear of the centre console. There are also cupholders for the rear seat passengers located on the side trim panels.

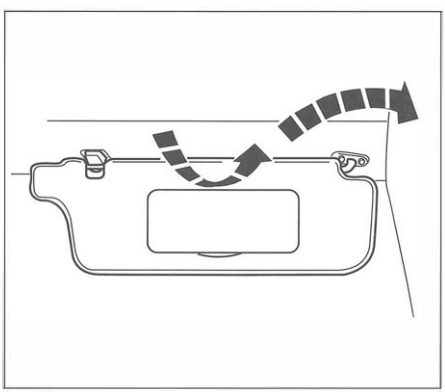


Sun visor

A ticket/document holder may be fitted to the outside of some sun visors.

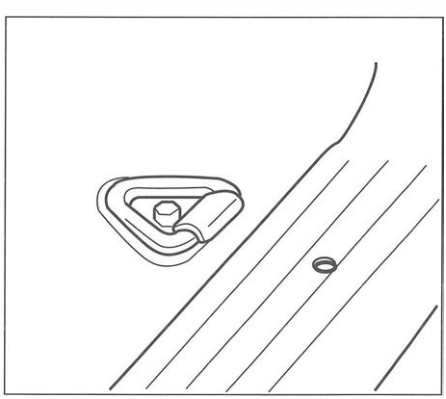
The sun visor can be pivoted to the side to block the sun from coming through the front side windows.

A vanity mirror may be fitted to the inside of some sun visors. Refer "Mirrors" earlier in this chapter.



Cargo tie-downs

The tie downs are located on the floor of the rear area. Use them to strap cargo in and keep it from moving in the vehicle.

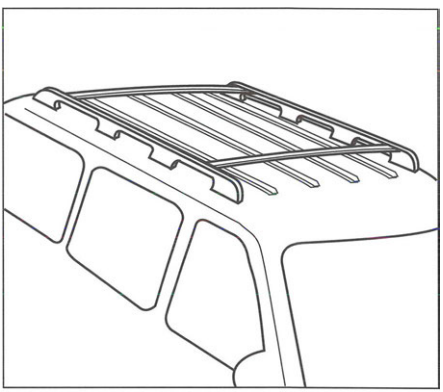


LUGGAGE CARRIER

Luggage carrier (if fitted)

The luggage carrier can be used to load cargo on top of the vehicle.

The luggage carrier has fixed slats, side rails and moveable crossrails to secure cargo.



CAUTION: Do not carry anything heavier than 90 Kg. Also, Do not carry anything wider or longer than the luggage carrier (such as surf boards, wood panels, etc.). The wind could catch it as you drive along and cause you to lose control. What you are carrying, or even the luggage carrier itself, could be violently torn off and cause a collision, injury or damage to your vehicle or someone else's property.

NOTE:

- Do not exceed the maximum vehicle capacity when loading your vehicle.
- As you are driving, be sure to stop occasionally to check that the luggage carrier and the cargo are securely fastened.
- If small, heavy objects are placed on the roof, place the load in the area over the rear wheels (behind the rear side doors). If you need to, cut a piece of 9.5 mm plywood to fit inside the crossrails and side rails to spread the load. If plywood is used, tie it to the side rail supports.
- Tie the load to the crossrails or the side rail supports. Use the crossrails only to keep the load from sliding.
- If you need to carry long items, move the crossrails as far apart as they will go. Tie the load to the crossrails and the side rails or side rail supports. Also tie the load to the bumpers. Do not tie the load so tightly that the crossrails or side rails are damaged.
- For the purpose of wind noise reduction, locate the front crossrail approximately 46 cm to 58 cm rearward of the front supports.
- After moving crossrails, be sure to tighten all the slider screws.
- Your vehicle has a Centre High-Mounted Stoplight located above the tailgate glass or above the rear load doors. If items are loaded on the roof of the vehicle, care should be taken not to block or damage the light.

ANTENNA, ASSIST GRIPS, ASHTRAYS, LIGHTER

Antenna

The fixed mast antenna is designed to withstand most car washes without damage. Check periodically to see that the mast is adequately tightened to the fender.

If the mast becomes slightly bent, you can straighten it by hand. The antenna can be replaced if severely bent. Mast antennas must be kept clean for good performance.

NOTE: Added sound equipment - like CB radio, mobile telephone or two-way radio - may interfere with the operation of the vehicle's engine, radio or other systems, and even damage them. Check with your Holden Dealer.

Assist grips

Assist grips are provided above all passenger side doors.

Ashtrays and lighters

Refer Chapter 1 for front ashtray.

To use a rear ashtray (if fitted), pull at the top of the ashtray door to flip the door open. To remove a rear ashtray, depress the inside tabs and fully open the door.

To use the cigarette lighter, push it in all the way, and let go. It will pop back out when the element is sufficiently heated. To avoid damage to the lighter, do not keep pressure on it after pressing in to use.

Notes

CHAPTER 4

Driving

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4-4 Diesel engine starting
4-5 Automatic transmission
4-7 Four wheel drive
4-8 Driving precautions
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SAFETY

Before entering the vehicle

1. Check that windows, mirrors and lights are clean.
2. Visually check tyre inflation (check with a pressure gauge each week).
3. If you intend to reverse, check that the area behind your vehicle is clear.

Before driving off

1. Be sure that all doors are closed and secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. For diesel engines, make sure that the **GLOW PLUGS** light has turned off before starting the engine.
6. Check that all the warning indicators light up when you turn the key to start the engine.

Parking

1. Apply the park brake.
2. Place automatic transmissions in **P** (Park).
3. Switch off all exterior lights.
4. Shut all windows.
5. Turn ignition key to LOCK and remove the key.
6. Lock all doors.

CAUTION:

Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

Never leave the engine running in a closed garage or underground car park.

PETROL ENGINE STARTING

1. Ensure the park brake is firmly applied and release only after you have started the engine and are ready to drive off.

2. Move the shift lever to **P** (Park) or **N** (Neutral). The engine will not start if it is in any other position. As a safety precaution, you must have your foot on the brake pedal in order to shift the transmission lever out of the **P** (Park) position.

3. Start the engine as outlined below, with your foot off the accelerator.

For cold or hot starting, the procedure is the same. Simply turn the key to the START position and release when the engine starts.

If the engine does not start in 10 seconds, push the accelerator pedal all the way to the floor while holding the key in START for up to five more seconds.

If the engine still does not start, release the key and pedal. Wait 15 seconds and then repeat the entire procedure. If the engine still fails to start, contact your Holden Dealer.

NOTE**:** Holding your key in START for longer than 15 seconds at a time will cause your battery to be discharged much sooner. The excessive heat can also damage your starter motor.

NOTE: You should not subject the engine to high load conditions such as full throttle acceleration or high speeds until it has completely warmed up. You may cause premature engine wear or engine damage.

DIESEL ENGINE STARTING

Glow plug indicator light

GLOW PLUG

Your diesel engine has a special starting system. Small heating elements, called "glow plugs" warm part of the engine for improved starting.

Turning the starter key to the ON position starts the system and turns on the indicator light. This indicator light is located on the instrument panel.

When the glow plugs have heated the engine enough for it to start, the indicator light will go out. The engine is now ready to be started.

Note that waiting time depends on the engine temperature. The light may stay on for half a second if the engine is warm, or for about 5 seconds or longer if cold.

If the engine is already hot, the light may not come on at all. If the engine is not hot and the light fails to come on or if the light stays on or comes on while you are driving, see your Holden Dealer.

Starting

The shift lever must be in **P** (Park) or **N** (Neutral).

Turn the starter key to the ON position and check to see that the glow plug indicator light has turned on. As soon as the glow indicator light has gone off, crank the engine by turning the starter key to the START position. Release the key when the engine has started. It will return to the ON position.

NOTE: The longer you wait to start after the light goes off, the harder it will be to start the engine. Also, holding your key in START for longer then 15 seconds at a time will cause your battery to be discharged much sooner. The excessive heat could even damage your starter motor.

Finally, do not use gasoline or starting aids, such as ether, in the air intake. They could damage the engine and may even start a fire.

If the engine does not start within 15 seconds of cranking, turn the starter key to OFF, wait one minute for the starter to cool, and then repeat the procedure.

If you are trying to start your engine after having run out of fuel, refer Chapter 6.

Diesel turbo operating precaution

ENGINE STARTING Do not operate the engine above idle before normal engine oil pressure has been established (such as applying full throttle immediately upon initial start-up). This causes the turbocharger to operate at excessive speed before the bearings receive adequate lubrication. Operation of the turbocharger for a period as short as 5 seconds without sufficient oil can cause bearing failure.

AUTOMATIC TRANSMISSION

NOTE: The engine will not start unless the selector is in **P** (Park) or **N** (Neutral).

To prevent the vehicle creeping you must always have your foot on the brake pedal when shifting out of **P** (Park).

P (park)	This stops the rear wheels from turning and should be selected (together with the park brake) when leaving the vehicle. Never select **P** until your vehicle is fully stopped. The **P** position is one of only 2 positions (the other is **N**) in which your engine may be started.
R (reverse)	Never select **R** until your vehicle is fully stopped. After reversing, make sure the vehicle has fully stopped before proceeding forward again.
N (neutral)	This is the out-of-gear position. You may then restart a stalled engine while the vehicle is still moving. Also use this position when the vehicle is being towed.
Ⓓ (automatic overdrive)	This is the normal forward driving position and allows the transmission to choose the appropriate gear (1st through to 4th) for the driving conditions and optimum fuel economy.
D (drive)	This position allows the transmission to shift between 1st, 2nd oand 3rd gear as conditions require. 4th gear is excluded. Use this position when going down a long hill or on a road with many sharp curves. Shift back into the automatic overdrive position to return to normal driving.
2 (second)	This position allows the transmission to shift between 1st and 2nd gear. Use this position when going down a moderate gradient where you want to slow down a little without using the brake. Petrol 4L60E engine only: This gear can also be used when you are trying to start the vehicle on slippery roads. Shift back into the automatic overdrive position to return to normal driving.
1 (first)	The transmission cannot shift out of 1st gear when in this position and should only be used when strong braking effect is needed on a very steep hill. The shift lever can be shifted back to **1** at any speed. However, the transmission will not actually enter 1st gear until vehicle speed is slow enough. Remember to shift back to the automatic overdrive position to resume normal driving.

AUTOMATIC TRANSMISSION cont.

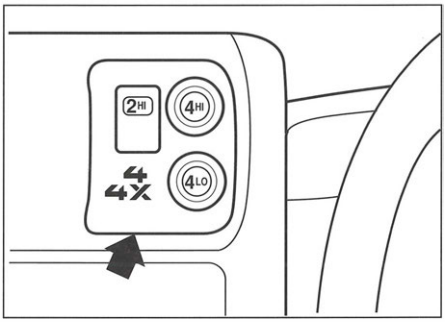
- Do not go from **P** or **N** to **R, D** or **D** with the accelerator pedal depressed.
- When driving down a long hill, reduce your speed and select a lower range. The engine will provide a braking effect. Remember if you ride the brakes, they may overheat, resulting in reduced performance. This is particularly important when towing.
- Be careful when accelerating, upshifting, downshifting or braking on a slippery surface. The abrupt change in engine speed, such as sudden acceleration or engine braking, could cause the drive wheels to spin or skid.
- Don't rev the engine with the brakes on in either **1**, **2**, **D**, **D**, or **R**. This will overheat the transmission.
- Don't rev the engine to hold the car on a slope. Use the brakes.
- Don't ever coast the vehicle in **N** - this lessens your control and the engine braking power.
- Always slow down in gusty crosswinds.
- Refer Chapter 7 for checking automatic transmission fluid level.

FOUR WHEEL DRIVE

The electronic transfer case controls are located above the heating and air conditioning system controls.

Use four wheel drive to send the engine's driving power to all four wheels for extra traction. The front axle locks and unlocks automatically.

Indicator lights in the switches show you which setting you are in. If the indicator light does not turn on, take the vehicle in for service.



2HI: Two wheel drive, high range. Use this for normal driving on sealed roads. This position gives greater economy, quieter ride and least vehicle stress.

4HI: Four wheel drive, high range. Use this for icy or snow covered roads, loose surface such as gravel, and in most off-road situations. This position provides greater traction than two-wheel drive.

4LO: Four wheel drive, low range. Use this for maximum power and traction. You may choose **4LO** for climbing or descending steep hills and for off-road driving or hard pulling in sand, mud or deep snow.

Shifting from **2HI** to **4HI**: Press and release the **4HI** switch. This can be done at any speed to automatically lock the front axle.

Shifting from **4HI** to **2HI**: Press and release the **2HI** switch. This can be done at any speed to automatically unlock the front axle.

Shifting from **2HI** or **4HI** to **4LO**: The vehicle must be stopped or moving less than 4.8 km/h with the transmission in neutral. The preferred method is for the vehicle to be moving at 1.5 to 3 km/h.

Press and release the **4LO** switch and wait for the indicator light to stop flashing before shifting the transmission to gear.

NOTE: If the switch is pressed while the vehicle is in gear and/or moving too fast, the indicator light will flash for 30 seconds and the transfer case will not shift until the vehicle has slowed down and/or the transmission is in neutral.

Shifting from **4LO** to **4HI** or **2HI**: Use the same procedure as shifting from **2HI** or **4HI** to **4LO**, but instead of **4LO**, press the **4HI** or **2HI** switch.

NOTE: If the transfer case does not shift into **4LO**, the switch may require adjustment. With the transmission in neutral, press and release the **4LO** switch. While the indicator is flashing, shift the transmission into **P** (Park). Wait until the light stops flashing before shifting the transmission into gear. This will get you into **4LO**. Take the vehicle in for service.

Do not use four wheel drive for normal driving on sealed roads. It will cause unnecessary noise and poor fuel consumption and will stress four wheel drive components.

DRIVING PRECAUTIONS

Specific design characteristics give four wheel drive vehicles a higher centre of gravity than ordinary cars. An advantage of the higher ground clearance is a better view of the road allowing you to anticipate problems. They are not designed for cornering at the same speeds as conventional passenger cars. If at all possible avoid sharp turns or abrupt manoeuvers. As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or vehicle rollover.

Always use your seat belts.

Running-in

These days, there's no need to follow the formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your vehicle's future performance and economy.

For the first 800 kilometres, don't exceed 90 km/h and avoid driving at any one speed - either slow or fast for any length of time. Therefore, avoid using the cruise control (if fitted) while "running-in".

Always drive at moderate speed until the engine has completely warmed up.

For the first 350 kilometres heavy braking should be avoided, except in an emergency, since brake misuse during this period could impair future braking efficiency. Heavy braking with new brake linings can lead to premature wear and earlier replacement. Follow this guideline every time the linings are replaced.

Do not tow a load at all for the first 800 kilometres that your vehicle is driven.

For the first 800 kilometres that you tow a trailer, do not drive over 80 km/h and do not make full-throttle starts.

Off road

Following a period of off road driving, particularly in wet weather, the front of the vehicle should be hosed down to clear any accumulation of mud. In particular pay specific attention to both sides of the radiator.

Engine misfire warning

Reduce speed and do not tow a caravan or trailer - until the misfiring is corrected at the nearest Holden Dealer. Otherwise, the catalytic converter and exhaust system may overheat, resulting in vehicle damage.

Steering

The "power assisted" steering, fitted to your vehicle, has been designed to reduce steering effort. Care should be taken not to hold a turning force on the steering wheel when stationary (i.e. when waiting before turning a corner, etc.) as this creates high operating temperatures and pressures within the system.

If power assistance for the steering isn't working, due to the engine stalling etc., the vehicle can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

DRIVING PRECAUTIONS cont.

Brakes

- The "power assisted" brakes, fitted to your vehicle, use vacuum from the engine when it is running. Therefore, never let the vehicle run down hills with the engine off, or coast after switching the engine off.
- Your seat should be positioned so that you can reach the brake pedal easily. Nothing should be under the brake pedal which could limit pedal travel, for-instance, poorly fitting floor mats.
- Consistent, heavy use will shorten the life of the brake pads.
- Your vehicle has front disc and rear drum brakes.
- Disc brakes have built-in wear indicators which should make a high-pitched squealing or cricket-like warning sound when the brake pads are so worn that new pads are needed. The sound will come and go, or be heard all the time when the vehicle is moving and may stop when the brake pedal is pressed down firmly. Expensive disc damage can result if pads are not replaced when needed.
- Drum brakes do not have wear indicators, but if you hear a rear brake rubbing noise, have the brake linings inspected. Also the rear brake drums should be removed and inspected each time the tyres are removed for rotation or replacement, and when the front brake pads are being replaced.
- Brake linings should always be replaced as complete axle sets.
- If the power assist is lost because of a stalled engine they are designed to have enough reserve vacuum for you to bring the vehicle to a full stop by applying the brake pedal once - do not pump the brake pedal to stop the vehicle.
- A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and vehicle speed should be adjusted to the road conditions.
- Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.
- Each time you make a brake stop the front disc brakes adjust for wear.
- If the brake pedal goes down farther than normal, the rear drum brakes may need adjustment. Adjust them by backing up and firmly applying the brakes a few times.
- In the interest of effectiveness, do not brake unnecessarily hard during the first 800 km after new disc brake pads have been fitted.
- Your vehicle is equipped with anti-lock brakes. Refer "ABS - Anti-lock brake system" later in this chapter.

DRIVING PRECAUTIONS (cont.)

Tyre grip

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of grip, which affects steering and braking. To reduce the possibility of hydroplaning:

- Reduce speeds during rainstorms.
- Replace tyres when tread wear indicators are visible.
- Check that tyres are properly inflated.

Mobile phones and CB radios

Mobile phones and CB radio equipment, which use an integrated antenna, may temporarily affect the vehicle's electronics (permanent damage is unlikely) when used inside the vehicle, due to the interference created when transmitting.

Therefore, mobile phones and CB equipment that use an antenna fitted to the outside of the vehicle should be used whenever possible.

If phones or CBs with an integrated antenna *must* be used inside the vehicle, care should be taken not to operate near the dashboard area.

Loose articles

Whenever possible, loose articles should be firmly secured, as they can become flying projectiles in accidents. Storage areas include the glovebox, the consoles, seatback storage pockets, the rear compartment convenience net and tie down straps in the luggage area.

Modifications to your vehicle

Any modification (including fitting non-approved accessories) to your vehicle could affect its performance, safety, or durability and possibly invalidate the warranty. In particular:

- Incorrectly mounted bull bars may affect vehicle handling and cause damage to the frame of the vehicle.
- Insulation-piercing quick fit type wiring connectors may damage wiring and electronic components.
- Under no circumstances should the engine or transmission computer systems be altered or added to. Not only will the fitting of unapproved items be likely to damage your vehicle, but many are illegal, for instance tow bars and bull bars are covered by legal requirements. You should contact your Holden Dealer for assistance, if required.

WARNING: The fitting of a non-Holden bug deflector on the front edge of the bonnet is not recommended. A non-Holden bug deflector may cause the engine to overheat by deflecting air from the engine air intake.

DRIVING PRECAUTIONS cont.

Parking

If the vehicle is parked on a hill, always apply the park brake before placing the transmission in **P** (Park). Otherwise the weight of the vehicle may put so much force on the transmission that it may be difficult to pull the lever out of **P** (Park). Therefore, when parking, always apply the park brake before moving the lever to **P** (Park). When preparing to move off, put your foot on the brake pedal, shift the lever out of **P** (Park) and then release the park brake.

Water crossing

Whenever driving across a shallow river or deep puddle, extreme care must be exercised or water may enter the engine air intake causing serious engine damage.

To prevent water being forced through the grille into the engine compartment, tie a sheet of canvas or some other suitable material to the underside of the front bumper bar and wrap it over the bumper, grille and top of the bonnet with a tie back to the door mirrors.

Remember that steady speed and constant traction are necessary for successful water crossing.

When the crossing is completed, remove the canvas.

After deep water crossing, check to ensure that no water has entered and mixed with the oil of the following components: engine, transmission, transfer, front and rear differential, refer Chapter 7.

YOUR 4WD

Driving on sealed roads

The increased traction of 4WD vehicles offers greater driving control in adverse road conditions, particularly heavy snow and ice. However, four-wheel drive vehicles are not "skid-proof". It is usually easier to control a skid in a conventional car than a four-wheel drive vehicle, skidding in the same circumstances.

When the conditions are severe enough to warrant engaging 4WD on sealed roads, remember the following:

- Drive slowly in the lower gears, according to the road and weather conditions.
- Use the accelerator pedal to control the vehicle.
- Keep the use of the brake pedal to a minimum.
- Do not spin the wheels.
- Do not make exaggerated or jerky steering movements.
- Off-road 4WD vehicles have a higher centre of gravity, so always approach curves at an appropriate driving speed. Do not attempt to go as fast through turns as you might in a conventional 2WD car. Likewise, strong crosswinds can affect the normal steering of the vehicle and could lead to loss of vehicle control. Drive slower under strong crosswind conditions.
- As with all driving, exercise caution when in slippery conditions (caused by sand, gravel, water, snow or ice on the road) in order to maintain vehicle control.
- When driving in snow or ice: select 4L or 4H (depending upon the conditions); start the vehicle moving with minimal engine revs, low gear and accelerator control.

Off-road driving

When driving off-road you will encounter various driving conditions too numerous to list here. Always think ahead and use common sense. If you feel uncomfortable about tackling a given situation, do not do it.

Gripping the steering wheel Rough terrain can cause rapid and unexpected movement in the steering. Be ready to deal with these movements by having a firm grip on the outer rim of the steering wheel with the thumbs outside the spokes (to guard against injury from kickback).

Preparation The duration, distance and conditions of the off-road activity determine the extent of the preparation that is required. The following are given as guidelines.

Know the area where you will be driving, either by inspection or from maps. Decide your route in advance.

Make a thorough check of the vehicle: oil, water, fuel, brake and clutch fluid levels, drive belts, windscreen wipers and washers, lights.

Ensure that the tyres (including the spare) are inflated to the correct pressure and are suitable for the type of off-road conditions prevailing.

Off-road or Mud and Snow tyres (which are standard equipment) have larger tread profiles designed to give better grip in muddy conditions.

YOUR 4WD cont.

Check the jack and wheel changing tools, and include a board or plate for supporting the jack on soft ground.

Carry emergency equipment, i.e. spade, first aid kit, vehicle spares etc.

A 13 metre tow rope should be carried to allow the recovery vehicle to be clear of adverse ground.

Secure all loose items and luggage that may cause injury if thrown around the passenger compartment in bumpy conditions. Avoid carrying heavy loads on the roof. Make sure all doors, the tailgate and the bonnet are firmly closed.

Avoid protruding objects (such as rocks or tree stumps) that may damage the underbody or tyres.

Test the brakes after operating in mud to clear excess mud from the braking surfaces.

Generally, you should use the fall-line of the slope or hill and set your vehicle to traverse this with the steering centred. Never drive diagonally across a slope.

The ground clearance, ramp angle, angle of approach and departure, tilt angle and wading depth need to be considered, especially in hilly conditions and when wading, to prevent the vehicle becoming stuck and possibly damaged.

Approach angle = 34 degrees (may be less if a bull bar is fitted)

Ramp angle = 20 degrees

Departure angle = 22 degrees (may be less if a tow bar is fitted)

Wading depth = 500 mm

Tilt angle = 40 degrees on the left side, 44 degrees on the right side

Driving through water

Do not drive in water deeper than the maximum wading depth.

Know the depth of water; choose the lowest entry and departure angles before entering.

Select 4L and 1st gear; maintain a steady engine speed to help prevent water from entering the exhaust system if the tailpipe is below the water level, but do not exceed 5 km/h to avoid splashing the water.

Drive with the flow wherever possible, not against it.

If you have to drive against the flow, try to drive at an angle to it, so that the leading corner of the vehicle will help deflect the water from the engine compartment.

Avoid splashing the water - if the ignition system on petrol engines becomes wet the vehicle may stall.

Ensure that water does not enter the engine air intake system. If water enters the engine air intake system, engine seizure with severe and costly damage may result.

Test the brakes after you have left the water - wet brakes are less effective than dry ones. To dry the brakes faster, drive the vehicle slowly while applying light pressure to the brake pedal.

After driving through water, perform the following checks for water contamination at the earliest opportunity. Renew any lubricating oil that has a milky appearance, indicating contamination with water. Check: the air cleaner element; the engine; the transmission and the axles. Also check the interior of vehicle.

YOUR 4WD cont.

Recovery and towing

When recovering or towing a vehicle off-road, observe the following:

- A greater force is required to move a vehicle from or through mud than when on a hard surfaced road.
- Attach the tow rope to the towing eye of the vehicle, not to the axle.
- Where possible, drive both vehicles forward to affect a recovery, using the appropriate gear to avoid excessive wheelspin.
- Avoid the use of reverse gear because of the possible resultant wheelspin.
- Stay clear of the tow rope. **Breaking ropes can cause serious injury**

Cleaning after off-road driving

Clean the vehicle thoroughly and as soon as possible after driving off-road, particularly after muddy conditions.

Do not let mud remain dry on the vehicle as it becomes abrasive and can damage paint, glass, seals, bearings and brake components. If left to build up, mud can seriously affect the air flow through and over mechanical components and cause overheating and failure of parts, especially in the engine compartment.

Clean the tyre treads.

To maintain proper cooling air flow, ensure the radiator core and the area around the radiator is cleaned.

Check the radiator and cooler cores for blockage (sand, silt, etc.).

Clean the underside and mechanical parts of the vehicle, particularly the following areas:

- Driveshafts.
- Front brake calipers, pads and discs.
- Front suspension.
- Brake drums.
- Rear suspension.
- Fuel tank and underguard.
- Breather, rear axle.
- Pinion oil seal, rear axle.
- Transfer box and underguard.
- Engine oil pan and underguard.
- Pinion oil seal, front axle.
- Breather, front axle.

The wheels must be removed to clean all mud and stones from the brake calipers and to check brake pad wear.

The rear brake drums must be removed to thoroughly clean and check the rear brakes.

The areas on the upper side of the underguards must be cleared of stones to prevent damage to the oil pan and the fuel tank.

Ensure the breathers for the axles and fuel tank are fitted and undamaged.

YOUR 4WD cont.

Maintenance and off-road driving

Proper maintenance at all times ensures that the warranty remains valid, repair costs are kept to a minimum, vehicle performance and capabilities remain high, and driver and passenger safety is maintained.

If you drive your vehicle off-road to a great extent, it is recommended that you have the chassis inspected more frequently.

The maintenance intervals are dependent on the severity of the operating conditions. Therefore, under extreme operating conditions, e.g. driving on unsurfaced roads, during thick dust or mud accumulation etc., additional maintenance operations, e.g. changes of engine oil, oil filter and air cleaner element and checking of brake pads; should be performed at shorter intervals. Your Holden Dealer will inform you which additional service is required between the normal service intervals after consideration of the specific operating conditions of your vehicle.

ABS - ANTI-LOCK BRAKE SYSTEM

The ABS (Anti-lock Brake System) is in addition to your vehicle's normal brake system. It prevents the wheels from locking up when braking, irrespective of the road conditions and tyre grip. It starts to regulate the braking as soon as a wheel shows a tendency to lock. The car remains steerable, even in the event of panic braking, for instance on bends or when swerving to avoid an obstacle.

Maximum braking is provided for each wheel, up to the point where it would lock. This means that steering control is retained.

In an emergency braking situation the driver should keep full force on the brake pedal, without 'pumping' the brake pedal. 'Pumping' the brake pedal can reduce brake efficiency when ABS is controlling the braking.

DO NOT let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by safe driving. Your speed should always be adjusted to suit road and traffic conditions.

An ABS warning light is provided with the gauges. To check that the system is working, the light will come on when you start the engine and may stay on for several seconds. If this symbol stays on or is displayed when driving, a malfunction of the ABS system is indicated. Remember, however, that unless the regular brake warning light is also on, this only means that the system's 'no lock' assistance is not operating. Your vehicle's conventional brake system will still operate normally.

When your vehicle is in a critical braking condition the ABS system will make itself noticeable through pulsing of the brake pedal and the noise of the regulation process. This reminds you to match your speed to the road conditions, even though it is keeping control of the braking.

When the engine is started and you begin to drive, the ABS system preforms a self check. This may be heard as well as felt, as pulsing, through the brake pedal.

If the brake is put on while turning or driving over split-level road surfaces, ABS will often be actuated. This is normal because the inside wheels or the wheels running over split-level have less driving force and are easier to lock.

Notes

CHAPTER 5

Fuel

Page

5-2 Carbon monoxide caution
5-3 Petrol filling
5-3 Diesel filling
5-3 Fuel tank capacities
5-4 Emission control
5-5 Reducing fuel consumption

PETROL

EXHAUST WARNING - CARBON MONOXIDE POISONING

Exhaust gases can produce carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your vehicle is faulty.

To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:

- each time the vehicle is serviced
- whenever a change is noticed in the sound of the exhaust system
- whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to your Holden Dealer if you think your vehicle needs inspecting for any of the above reasons.

DO NOT SIT (OR LEAVE THE CHILDREN OR PETS) IN A PARKED VEHICLE FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING. DO NOT RUN THE ENGINE IN AN ENCLOSED AREA (SUCH AS THE GARAGE) ANY LONGER THAN IS NEEDED TO MOVE THE VEHICLE.

Driving with the tailgate open is not recommended. If you must travel with the tailgate open, close all windows, ensure that the heater controls are set to outside (rather than re-circulate) with air directed to the face and the fan on the highest speed. Do not exceed 50 km/h unless necessary.

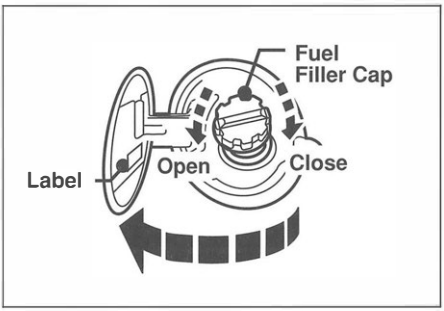
PETROL CAUTION:

- Petrol is extremely flammable and highly explosive.
- Always turn off the engine when refuelling.
- Do not smoke or allow open flames or sparks near the vehicle when refuelling.
- If petrol fumes are smelt while driving, the cause should be found and corrected without delay.
- Do not open the fuel filler cap too quickly. Pressure in the fuel tank could cause the petrol to spray out on you. Open the cap slowly and wait for any “hiss” noise to stop. Then, unscrew the cap all the way.

PETROL & DIESEL

The petrol filler is located on the rear left side of the vehicle.

The petrol cap (under the petrol flap) is a screw-on type. While refilling, let the cap hang by the tether. Always replace the cap after refilling. Tighten the cap clockwise until a clicking noise is heard, then close the flap.



Tank capacity

Petrol engines: 159 litres

Diesel engines: 159 litres

Fuel tanks should not be allowed to become empty.

Petrol engines

Use UNLEADED PETROL of 91 octane rating, or higher.

High octane unleaded petrol ("Premium" etc.) may be used, but is not required by your vehicle.

The use of any other fuel will seriously damage the engine of your vehicle and may void your Warranty. Only clean petrol of good quality should be used.

Petrol tanks should always be filled at the intermediate or fast fill rate. Don't add any more petrol after the petrol filler first clicks off or petrol blows back - as this allows room for the petrol to expand inside the tank.

It is only permissible to "trickle fill" petrol tanks when the vehicle is to be driven for more than 50 km immediately after the tank is filled. However, this is not recommended on days over 30°C.

Wipe off any overflowing petrol from the vehicle immediately; spray or splash with water.

Diesel engines

Use a good quality (ASTM No. 2D)diesel fuel of at least 49 cetane rating. Note, if the diesel fuel tank has run completely dry the fuel system must be "bled", refer Chapter 6.

Diesel fuel, fuel additives, or diesel fuel that has been mixed with engine oil that are not recommended may damage the fuel system, emission controls and engine.

Diesel fuel may foam while the tank is being refilled. This may cause the fuel filler to shut off before the tank is full. If this happens, wait for the foaming to stop and then continue to fill the tank.

Do not try to "trickle" fill the fuel tank after the filler has clicked off, or engine heat could force the fuel out of the tank. The fuel could ignite and start a fire.

If you are ever driving and the vehicle runs out of fuel, refer "Running out of fuel" in Chapter 6 for instructions.

If you experience problems with the vehicle immediately after refilling the fuel tank, refer "Contaminated fuel" in Chapter 6.

If you experience hard starting, hesitation, or "flat" performance at high speeds or during hard acceleration, the fuel filter may need to be replaced. Refer the "Fuel filter replacement" procedure in Chapter 6 under "Contaminated fuel".

PETROL - EMISSION CONTROL

Your vehicle is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, contribute to smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems fitted to your vehicle are:

1. **Evaporative Emission Control System**
   This system is designed to prevent the escape of fuel vapour from the fuel system and recycle them through the normal combustion process.
2. **Crankcase Emission Control System**
   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.
3. **Exhaust Emission Control System**
   The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust Emission Control System is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian vehicles have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to your vehicle's service manual and/or the emission label inside the engine bay.

Owner responsibility

Vehicles sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine or exhaust system of the vehicle must NOT be modified in any way. Any change to the design may increase the emissions or otherwise defeat the intent of the regulations.

Any person who removes, modifies or hinders any part of the emission control system will be contravening regulations. It is also illegal to drive a vehicle modified in this way.

First drive

When the vehicle is driven for the first time, wax and oil on the exhaust system may evaporate, producing smoke-like emissions that should not be inhaled. Allow wax and oil to evaporate while the vehicle is in the open air.

Maintenance requirements

To ensure continuing compliance with the regulations you must maintain your vehicle's emission control system as per your vehicle's service manual, at the frequency shown in the Maintenance Schedule in chapter 12.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

REDUCING FUEL CONSUMPTION

Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance with the Maintenance Schedule in Chapter 12. This will ensure items such as the spark plugs and air cleaner are maintained for minimum fuel usage and peak engine performance.

Tyre pressure

Keep the tyres at the recommended pressures. Under-inflated tyres create extra rolling resistance and wastes fuel, refer Chapter 7.

Incorrect tyre pressures can also cause uneven and premature tyre wear.

Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag, wastes fuel and causes uneven and premature tyre wear.

Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively when driving.

You should also avoid long engine idling. If you have to wait for more than a couple of minutes turn off the engine to conserve fuel.

Accelerating, driving and braking

Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle acceleration - they're certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake, as this can overheat the brakes, increase brake pad wear, damage the brakes and waste fuel.

Air conditioning

Turn off the air conditioning, when not required. However, once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes, even in Winter, to lubricate seals.

Excess weight

Fuel economy is related to the work the engine must do. The heavier the load, the more fuel it takes to run. Keep weight to a minimum by removing unnecessary cargo.

4WD/2WD

In normal driving, the transfer case should be set to 2HI.

CHAPTER 6

Emergencies

Page

6-2 Accidents
6-3 Medical assistance
6-4 Flat tyre
6-10 Towing a disabled vehicle
6-11 Freeing the vehicle from sand
6-11 Recovery hooks
6-12 Engine overheating
6-16 Flat battery
6-18 Fuses
6-21 Bulb replacement
6-23 Contaminated fuel (diesel)
6-25 Running out of fuel (diesel)
6-26 Air bag

Your new vehicle is covered for 3 years by 24 hour Roadside Assistance, refer page 9-8.

ACCIDENTS

All drivers are advised to learn what to do at the scene of an accident, particularly where people are injured. Injured people can choke to death if their air passages are not cleared, they can bleed to death unless the bleeding is stopped, they may require mouth-to mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs. In all cases, ensure safety for rescurers, victims and bystanders.

The following notes may help.

Accident - being involved

Stop immediately and remember to turn off the engine and apply the park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see following page).

Send for police and ambulance if anyone has been injured. Give information as accurately as possible: the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others.

Clear the road of accident debris.

Exchange your name, address, vehicle registration, owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property or to his/her representative, to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

Accident - being a witness

If you witness a road accident or it becomes your task to stop and help:

- Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.
- DO NOT stop at the scene of an accident just to be a spectator. If other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.
- Give what assistance you can to any injured persons (see following page).
- Follow most of the steps suggested above. Perhaps you may have to take charge of the accident situation.

ACCIDENTS cont.

Medical assistance

Keep calm and think clearly. Your experience may not be much but do your best.

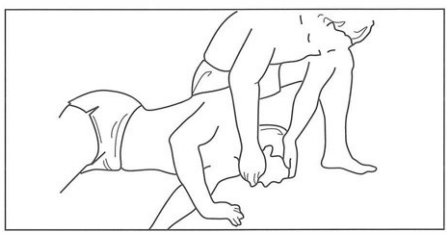
- Look after the unconscious person first. Check airway, breathing and circulation. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.

  Unconscious people can choke.

  Carefully turn to one side.

  Tilt the head back slightly.

  Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.



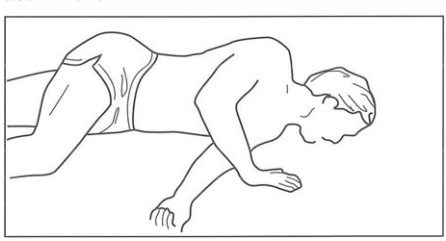
- You must be very careful when moving an injured person. It is best not to move at all, except if in danger, as serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND OR TWIST A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.
- Provided it is not dangerous to do so because of other injures, an unconscious person will do best in the position illustrated here.

  Lay the person on one side and - if it will not aggravate any injuries

  Bend the uppermost knee until the thigh is at right angles to the body.

  Bend the uppermost arm and elbow so that the hand lies near the face.

  Gently pull the underneath arm so that it rests straight on the ground, free of any body weight.



- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.
- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. Best not to give any fluids and NEVER ALCOHOL.
- If the injured person is in danger and has to be moved, try and have three or four people help, concentrating on not bending or twisting the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

Illustrations reproduced from "The Victorian Road Code" with permission from Road Safety and Traffic Authority of Victoria.

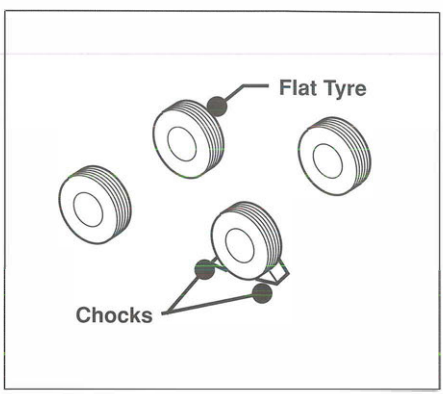
FLAT TYRE

Driving for even a short distance on a deflated tyre can damage a tyre and wheel beyond repair.

CAUTION:

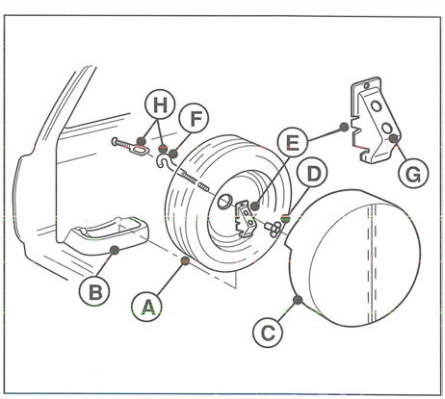
- Never use a jack designed for another vehicle to lift your vehicle, or use your jack to lift another vehicle.
- Never get beneath the vehicle when it is only supported by the jack.
- Do not start or run the engine while the vehicle is only supported by the jack.
- All passengers should be out of the vehicle when it is being jacked.
- Use the jack only at the designated lifting points. Use in other locations can damage the vehicle.
- The vehicle should only be jacked on hard, level surfaces.

1. Park on level surface, set the park brake firmly and turn on the hazard flasher.
2. Set automatic transmissions in park. Remove the ignition key.
3. Block the wheel diagonally opposite the flat tyre.



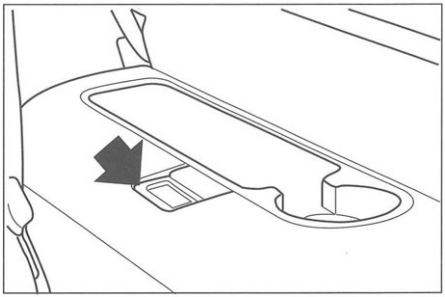
4. Remove the spare tyre,(A) located on a carrier (B) in the rear cargo area. To remove the tyre, you must first open the tyre cover (C) (if fitted) and then turn the wing nut (D) anti-clockwise to remove it and the adapter (E) from the bolt (F). The tyre can now be removed from the vehicle. Note that the lower hole (G) in the adapter should only be used for stowage of tyres with eight-lug rims.

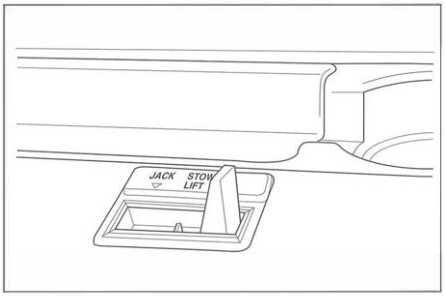
   NOTE: When stowing a spare or flat tyre, ensure the mounting bolts (H) are properly connected (as shown).



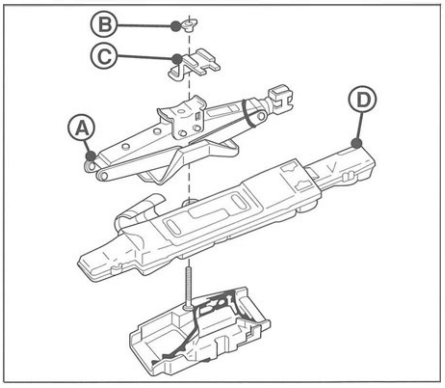
FLAT TYRE cont.

5. To open the jacking equipment storage compartment (located in the rear area near the spare tyre), lift the latch to release the cover, then remove the cover.



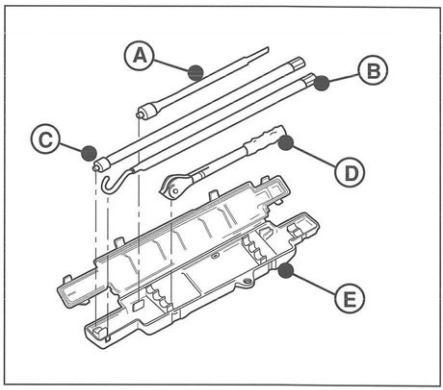


To take out the jack (A), turn the wing nut (B) anti-clockwise to remove it and the retainer (C). Remove the jack and the storage box (D) that contains the rest of the tools. Note that there may also be a pair of emergency gloves secured to the jack for your convenience.



FLAT TYRE cont.

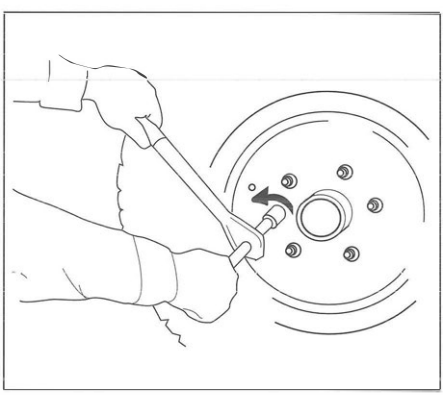
6. Remove the wheel wrench (A), jack handle (B), jack handle extension (C) and ratchet (D) from the storage box (E). The jack handle extension will be used if the flat tyre is on the rear of the vehicle.



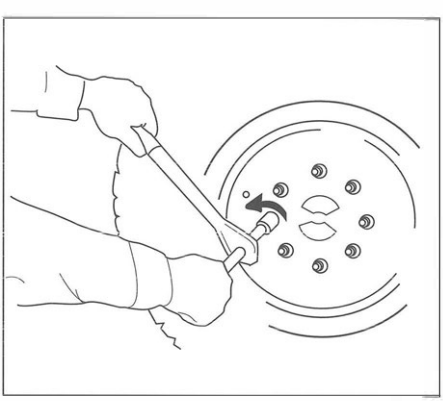
7. If your vehicle has wheel nut caps, use the wheel wrench and ratchet to remove them. Turn the wheel wrench (with the **DOWN** mark facing you) to the left. Once the caps have been removed, take off the hub cap.

   If the wheel also has a trim ring, use the wheel wrench to pry along the edge and remove it.

   If there is also a smooth centre piece on the wheel, place the wrench in the slot on the wheel and gently pry it off.

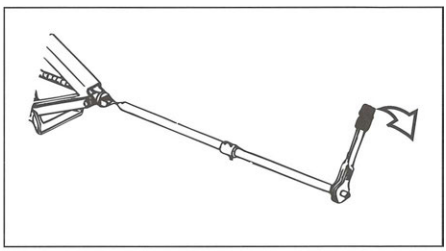


8. Use the ratchet and wheel wrench to loosen all the wheel nuts. Turn the wrench to the left, with the **DOWN** mark facing you, to loosen the nuts. Do not actually remove the nuts yet.



FLAT TYRE cont.

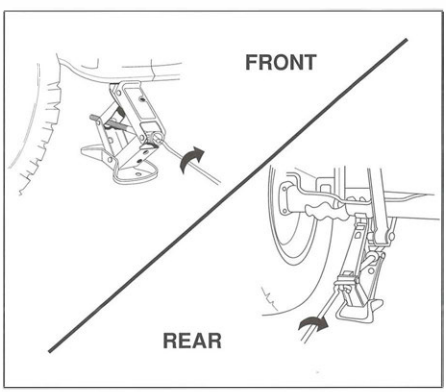
9. Attach the jack handle (and the extension if a rear tyre is flat) to the jack. Slide the ratchet on to the handle with the **UP** mark on the ratchet facing you. Rotate the ratchet to the right to lift the jack head just enough so you can still position it under the vehicle jacking point.



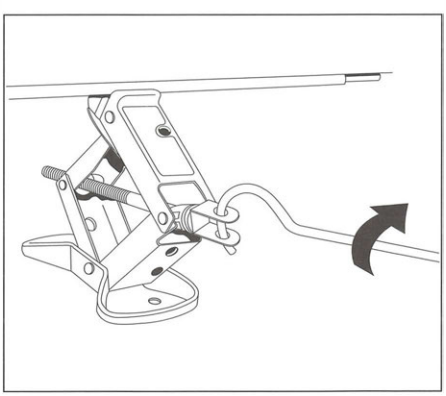
Failure to position the jack as described could cause the vehicle to slip off the jack.

Ensure that the jack is not tilted and that the base is resting squarely on the ground.

10. Now, position the jack under the vehicle. If a front tyre is flat, the jacking point is on the frame behind the flat tyre. If a rear tyre is flat, the jacking point is on the axle near the flat tyre between the spring and the shock absorber.



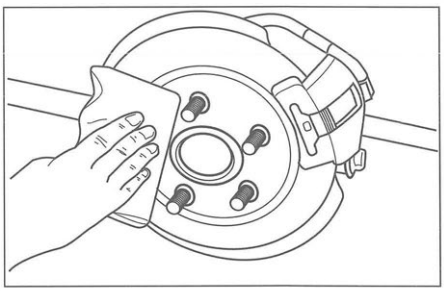
11. With the **UP** mark on the ratchet facing you, raise the vehicle by rotating the ratchet to the right. Raise the vehicle far enough off the ground so there is enough room for the spare tyre to fit.



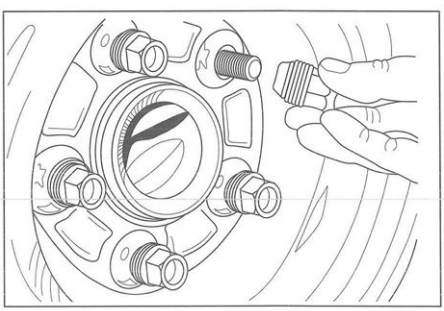
12. Remove all the wheel nuts and take off the flat tyre.

FLAT TYRE cont.

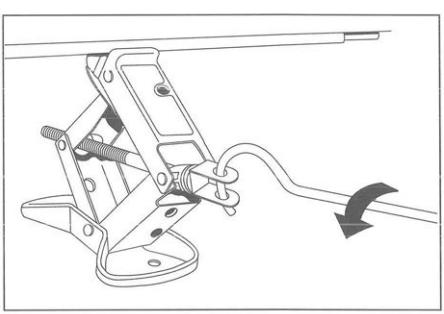
13. Remove any rust or dirt from the wheel bolts, mounting surfaces and spare wheel.



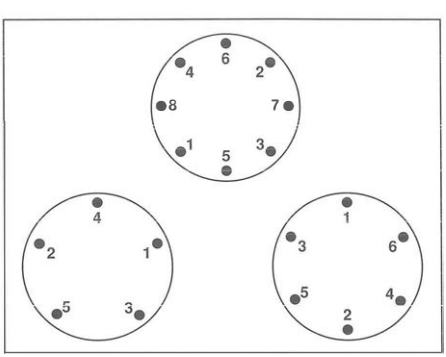
14. Place the spare tyre on the mounting surface and replace the wheel nuts with the rounded end toward the wheel. Tighten the wheel nuts with your fingers in a criss-cross pattern. Then, tighten the wheel nuts with the wheel wrench, again in a criss-cross pattern. Ensure that the wheel is seating squarely against the hub and is not tilted.



15. Lower the vehicle by rotating the ratchet to the left. Lower the jack completely.



16. Tighten each wheel nut firmly by rotating the wheel wrench to the right. The nuts should be tightened in a criss-cross pattern as shown.



FLAT TYRE cont.

17. Replace the wheel trim. For vehicles with plastic wheel nut caps, tighten the caps until they are finger-tight, then use the wheel wrench and ratchet to tighten them an additional one-half turn.

18. Stow the tools and changed wheel by reversing the removal procedures as shown on the previous pages. Note that the flat tyre fits on the spare tyre carrier.

CAUTION:

As soon as possible after changing a wheel, you should have the wheel nuts properly tightened.

Wheel nuts should be tightened evenly to the correct torque in the sequence shown, as improperly tightened wheel nuts could eventually allow the wheel to come off while the vehicle is moving!

Never use oil or grease on wheel studs or nuts. Sparingly apply "Loctite" anti-seize compound (or similar) to wheel stud threads to prevent nuts from seizing on the thread. Anti-seize compound should not get on the tapered end of the wheel nut. To ensure this does not happen, do not apply anti-seize compound to wheel nuts, but only to the wheel studs.

Rust or dirt on the wheel, or on the parts to which it is fastened, can make the wheel nuts become loose after a time. The wheel could come off and cause an accident. Remove any rust or dirt from the wheel mounting surfaces.

TOWING A DISABLED VEHICLE

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage. Country, State and Local laws must be followed. In an emergency, your vehicle may be towed on all four wheels in the following manner:

- Fit the towing equipment to the main structural members of the vehicle. Do not attach to the bumpers or brackets.
- Place transmission in neutral position, ensure the transfer case is in **2HI** and release the park brake.

  Switch off the ignition to release the steering column lock and prevent battery drainage.
- For the sake of safety and to prevent damage to the vehicle it is advisable to avoid jerky movements and to drive slowly during towing operations.
- Do not exceed 50 km/h or tow further than 80 km. If exceeding these distances or speeds, disconnect the front and rear drive shafts at front and rear axle carriers and secure them in safe positions. For your safety, securely block the wheels while disconnecting the drive shafts.
- Vehicles with damaged transmissions, drive-lines, axles or steering should not be towed.
- A separate safety chain should be used.

Towing with all 4 wheels on the ground

- Switch the ignition key to "OFF" position to free the steering lock. When indicating a turn or using the wipers, switch the ignition to ON when required.
- Only the driver should be in a towed vehicle.
- Remember that power assist for brakes and power steering will not be available when the engine is off.
- To prevent the entry of exhaust fumes from the towing vehicle into the passenger compartment of your vehicle, close the windows and stop entry of air by moving heating and ventilation controls to "re-circulate" position.

Towing with wheels off the ground

Care should be taken to ensure adequate ground clearance at the opposite end of the vehicle when lifted. In cases of rear end damage it may be necessary to lift the rear end of the vehicle and tow on the front wheels only.

In such cases the steering wheel must be clamped in the straight ahead position using a clamping device designed for towing service use, such as those provided by towing equipment manufacturers. Do not use the vehicle's steering column for this purpose.

The vehicle MUST NOT be towed with the front free wheeling hubs locked, especially if it is to be towed with the rear of the vehicle lifted.

Place the transmission in **N** (neutral) and place the transfer case in **2HI**.

When the vehicle is hooked up, release the park brake.

Do not drive faster than 90 km/h or the legal speed limit. If the vehicle is not fitted with the 4WD option and must be towed with the front wheels lifted, do not drive faster than 55 km/h or for a distance of more than 80 km.

FREEING THE VEHICLE FROM SAND, RECOVERY HOOKS

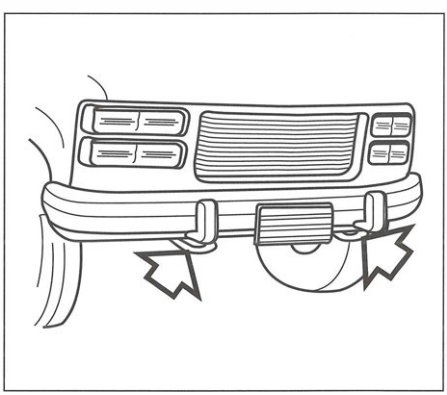
Freeing the vehicle from sand

If it becomes necessary to rock the vehicle to free it from sand, mud or snow, first turn your steering wheel left and right to clear the area around the front wheels. Then, shift the transfer case into 4HI and shift the transmission back and forth between drive and reverse. Do not race the engine. For best possible traction, avoid spinning wheels when trying to free the vehicle. Use of the recovery hooks (if fitted) may be necessary. If all else fails, and the vehicle must be towed out, refer "Towing a vehicle" earlier in this chapter.

CAUTION: Wheel spin should not exceed 55 km/h as indicated on the speedometer. Unless care is taken in limiting rear wheel spin, one spinning wheel can reach excessive speeds, resulting in possible tyre disintegration or differential failure, which could cause serious personal injury or extensive vehicle damage.

Recovery hooks (if fitted)

The recovery hooks, located at the front of the vehicle, may be needed if the vehicle is stuck off-road and must be pulled to someplace where you can continue driving. Always pull the vehicle straight out - never at a sideways angle - to avoid breaking the hooks. Also, never use the hooks to tow the vehicle.



ENGINE OVERHEATING

CAUTION: If the temperature gauge shows overheating, or if you suspect the engine of overheating, immediate action is required. Continued driving EVEN FOR A SHORT TIME could cause a fire, personal injury and/or severe vehicle damage.

Note that if no steam is coming from the engine, the problem may not be too serious.

The engine may temporarily operate at high temperatures during demanding operating conditions, especially on hot days, including:

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic
- towing a heavily laden trailer or caravan.

You should avoid driving for prolonged periods in any of the above conditions if the temperature gage shows "hot". It may help to turn off the air conditioner in these conditions and turn on the heater to full hot, at the highest fan speed. Open the windows as necessary. If you are caught in a traffic jam, shift the transmission to **N** (Neutral). Otherwise, shift to automatic overdrive while driving. If after a couple minutes you no longer have the overheat warning, you may continue to drive at a slower speed for about 10 minutes. Then, if the warning does not come back on, you may resume normal driving.

If, however, the overheat warning continues, you should pull over, stop, and park the vehicle right away. If there is still no sign of steam, push the accelerator pedal until the engine speed is about double the normal idle speed, and hold it there for two to three minutes. The warning may stop. But, if the warning persists, turn off the engine, get everyone out of the vehicle until it cools down and either continue with the following procedures or call for service help right away.

CAUTION: Do not open the bonnet if you can see or hear steam or water escaping. Wait until no steam or water can be seen or heard before opening the bonnet.

CAUTION: On vehicles fitted with air conditioning, the auxiliary electric engine cooling fan can start even when the engine is not running. To avoid injury, keep hands, clothing and tools away from any underhood electric fan.

ENGINE OVERHEATING cont.

If the coolant inside the coolant recovery tank (petrol engines) or coolant surge tank (diesel engines) is boiling, wait until it cools down before proceeding to check the coolant level. If necessary, refer Chapter 7 for locations.

The coolant level should be at or above the **COLD** mark.

If it is not, look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump. Take care when checking all these areas as they will probably still be hot.

If you find a major leak or find other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find any leaks, start the engine again. While idle speed is doubled by pushing the accelerator pedal, check to see if the engine cooling fan speed increases. If it does not, the vehicle needs service.

If it does, turn off the engine and proceed to add coolant. Refer the following procedures.

The cooling system is pressurised, so to avoid injury please read all the following instructions before attempting to add fluid.

CAUTION: Do not remove the cooling system cap if the engine and radiator or surge tank are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

ENGINE OVERHEATING cont.

Adding coolant (petrol engines)

Add a 50/50 mixture of clean (preferably distilled) water and DEX-COOL® (silicate-free) antifreeze (or equivalent silicate-free organic acid technology type coolant) to the coolant recovery tank to bring the level up to or above the **COLD** mark. Do not add plain water or any other liquid not recommended or the engine could catch on fire. Also, do not spill coolant on hot engine parts.

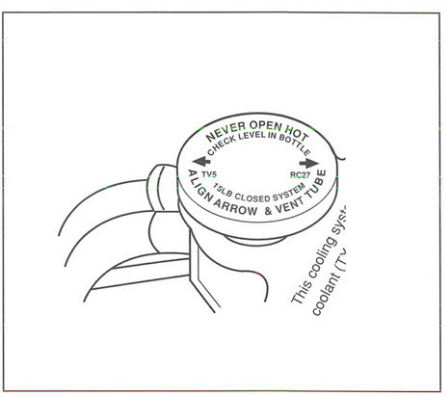
Start the vehicle. If the overheat warning continues, you can add the proper coolant mix directly to the radiator, but make sure the cooling system is cool before you do. Refer Chapter 7 for location.

CAUTION: Do not remove the cooling system cap if the engine and radiator or surge tank are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Once the system is cool, cover the radiator cap with a thick cloth, and turn slowly anti-clockwise (without pressing down) until it reaches a "stop". This is the pressure relief stop, which will allow any remaining pressure (indicated by a hissing sound) to escape. Then press down on the cap and continue turning it anti-clockwise until it can be removed.

Fill the radiator with the proper mix, up to the base of the filler neck. Then fill the coolant recovery tank to the **COLD** mark. Put the cap back on the coolant recovery tank, but leave the radiator pressure cap off. Start the engine and let it run until you can feel the upper radiator hose getting hot. Watch out for the engine cooling fan(s).

The coolant level inside the radiator filler neck may now be lower. If it is, add more of the proper mix, then replace the pressure cap. Be sure the arrows on the cap line up as shown. Note that if at any time during this procedure, coolant begins to flow out of the filler neck, the pressure cap should be reinstalled.



After taking one or more of the above actions, and once the temperature gauge no longer signals an overheat condition, you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition. If overheating occurs again you should have the vehicle attended to, as soon as possible, by a qualified mechanic.

Chapter 7 gives instructions to help protect your cooling system from overheating.

ENGINE OVERHEATING cont.

Adding coolant (diesel engines)

When the engine has cooled sufficiently, add coolant as follows:

Cover the surge tank cap with a thick cloth, and turn slowly anti-clockwise (without pressing down) until it reaches a "stop". This is the pressure relief stop, which will allow any remaining pressure (indicated by a hissing sound) to escape. Then press down on the cap and continue turning it anti-clockwise until it can be removed.

After the engine cools, open the air bleed valve on the thermostat housing.

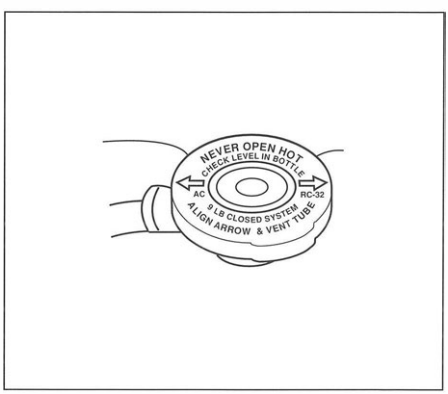
Add a 50/50 mixture of clean (preferably distilled) water and DEX-COOL® (silicate-free) antifreeze (or equivalent silicate-free organic acid technology type coolant) tothe coolant surge tank. Add coolant until you see a steady stream of coolant coming from the bleed valve. Do not add plain water or any other liquid not recommended or the engine could catch on fire. Also, do not spill coolant on hot engine parts.

Close the bleed valve and rinse or wipe any spilled coolant.

Fill the surge tank with the proper mix up to the **COLD** mark.

With the pressure cap still off, start the engine and let it run until you can feel the upper radiator hose getting hot. Watch out for the engine cooling fan(s).

The coolant level inside the surge tank may now be lower. If it is, add more of the proper mix until the level reaches the **COLD** mark, then replace the pressure cap. Be sure the arrows on the cap line up as shown.



After taking one or more of the above actions, and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition. If overheating occurs again you should have the vehicle attended to, as soon as possible, by a qualified mechanic.

Chapter 7 gives instructions to help protect your cooling system from overheating.

FLAT BATTERY

CAUTION: DO NOT "push start" or "tow start" your vehicle. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, you can "jump start", but not "push start" your vehicle.

CAUTION: To protect your vehicle's electrical system: never disconnect the battery when the engine is running; never start the engine while the battery is disconnected; never charge the battery while it is still connected to the vehicle; first disconnect the negative cable, then the positive cable; the polarity of the battery, i.e. the connections for the positive and negative cables, must not be interchanged and when reconnecting, first connect the positive cable, then the negative cable.

If after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your vehicle that you leave the starting to a competent mechanic.

Jump starting

CAUTIONS:

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, when working near a battery:

- Do not expose the battery to open flames or sparks.
- Do not smoke near a battery.
- Do not use jumper leads which are in any way damaged.
- Wear eye protection such as safety glasses and avoid leaning over the battery.
- Battery acid is corrosive. If it gets on your skin, wash with lots of water immediately. If it gets in your eyes you should not only wash with lots of water but should also seek medical help. Battery acid will also damage paint and fabrics if not washed off immediately.
- Be sure any batteries that have filler caps are properly filled with fluid.
- Remove rings, metal watch bands and other metal jewellery before working around the battery.
- Carefully follow each step in the jump starting procedures.
- Never use a quick charger to start your engine.

FLAT BATTERY cont.

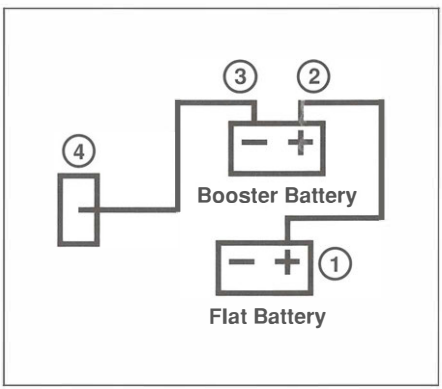
1. The battery in your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle **MUST** also have a negative earth and a 12 volt rating.

2. Position the two vehicles so that they are NOT touching, apply the park brakes, put automatic transmission in PARK, manuals in NEUTRAL. Turn ignition to LOCK and switch off all lights and accessories in both vehicles, except the hazard warning flasher or any lights needed for the work area.

CAUTION: Fans or other moving engine parts can injure you badly. Keep your hands away from moving parts once the engine is running.

3. Attach one end of the RED jumper lead to the positive terminal of the flat battery (identified by a red colour, + or P) and the other end of the RED jumper lead to the positive terminal of the booster battery.

   Use remote positive terminals if the vehicles have them.



4. Attach one end of the BLACK jumper lead to the negative terminal of the booster battery (identified by a black colour, - or N) and the other end of the BLACK jumper lead to a solid, stationary, metallic point on the engine of the vehicle with the flat battery that is at least 45 cm away from the flat battery. DO NOT CONNECT DIRECTLY TO NEGATIVE TERMINAL OF VEHICLE'S BATTERY.

5. When making all connections, take care that the jumper lead clamps do not touch each other. Also, ensure that jumper leads are not on or near pulleys, fans or other points that will move when the engine is started.

6. Start the engine in the vehicle with the good battery and run the engine at a moderate speed. Then start the engine with the flat battery. Attempts to start the engine should not last longer than 15 seconds and should have an interval of 1 minute between attempts.

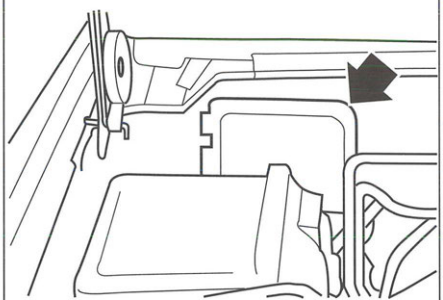
7. After starting, allow both engines to idle for approx. 3 minutes with the leads still connected.

8. Leave the engine running while removing the jumper leads - in the exact reverse order they were installed. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

FUSES

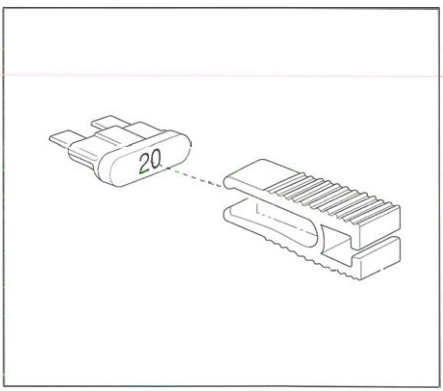
There are two fuse boxes; one is on the right hand side of the dash panel, visible when the door is open and the other is in the engine compartment.

Under-bonnet fuse block



To determine whether or not a fuse is "blown", it is necessary to pull out the suspect fuse and examine the element in the fuse. A fuse puller is provided on the inside of the dash fuse box lid. A blown fuse can be recognized by its melted wire. When replacing the fuse, use a cartridge of the same amperage. There may be spare fuses mounted near the fuse puller.

If a fuse blows twice in a row a fault is indicated. The cause should be located and fixed, by a Holden Dealer.



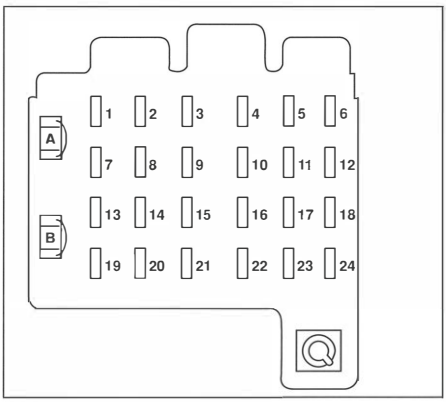
CAUTION: When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar item for replacement as it may cause a fire hazard to the vehicle.

If you ever have a problem with a bad fuse and you don't have a spare, you can borrow one that has the same amperage. Choose a feature of the vehicle that you can temporarily get along without, such as the radio or cigarette lighter, and use its fuse if it is the correct amperage.

FUSES cont.

Dash panel fuses

1	Stop/Torque Converter Clutch Switch; Buzzer; Centre High Mounted Stop Light; Hazard Lights; Stop Lights
2	Transfer Case
3	Courtesy Lights; Glove Box Light; Dome/Reading Lights; Vanity Mirrors; Power Mirrors; Cargo Light
4	Instrument Panel Cluster; Light Switch; Keyless Entry; Low Coolant Module; Illuminated Entry Module; Digital Ratio Adapter Circuit (Diesel); Daytime Running Lights Relay
5	Rear Heating and Air Conditioning Controls
6	Cruise Control
7	Not Used
8	Air Bag System
9	License Light; Park Lights; Taillights; Roof Marker Lights; Tailgate Lights; Front Side Markers; Fog Light Relay; Door Switch Illumination; Fender Lights; Headlight Switch Illumination
10	Air Bag System
11	Wiper Motor; Washer Pump
12	Air Conditioning; Air Conditioning Blower; High Blower Relay
13	Power Amp; Rear Liftglass; Cigarette Lighter; Door Lock Relay; Power Lumbar Seat
14	Four Wheel Drive Indicator; Cluster; Front and Rear Heating and Air Conditioning Controls; Instrument Panel Switches; Radio Illumination; Chime Module

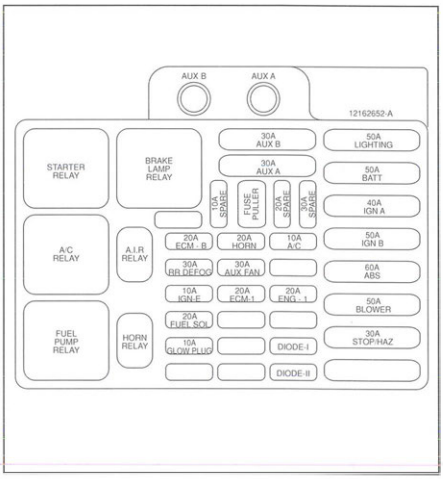


15	Daytime Running Lights Relay
16	Front and Rear Turn Signals; Back up Lights; Brake/ Transmission Shift Interlock Solenoid
17	Radio (Ignition)
18	Four Wheel Antilock/Vehicle Control Module; Antilock Brake System; Cruise Control
19	Radio (Battery)
20	PRNDL; Automatic Transmission; Speedometer; Check Gages; Warning Lights
21	Variable Effort Steering
22	Not Used
23	Rear Wiper; Rear Washer Pump
24	Front Axle; Four Wheel Drive Indicator Light; Throttle Position Sensor Relay (petrol)
A	Power Door Locks; 6-Way Power Seat; Keyless Entry Module (Circuit Breaker)
B	Power Windows (Circuit Breaker)

FUSES cont.

Fuse box in engine compartment

ECM-B	Fuel Pump; Powertrain Control Module/Vehicle Control Module
RR DEFOG	Rear Window Defogger
IGN-E	Auxiliary Fan Relay Coil, Air Conditioning Compressor Relay; Hot Fuel Module
FUEL SOL	Fuel Solenoid (Diesel)
GLOW PLUG	Glow Plugs (Diesel)
HORN	Horn, Underhood Lights
AUX FAN	Auxiliary Fan
ECM-1	Injectors; Powertrain Control Module/Vehicle Control Module
A/C	Air Conditioning
ENG-1	Ignition Switch; Exhaust Gas Recirculation; Canister Purge; Electronic Vacuum Regulator Valve Idle Coast Solenoid; Heated Oxygen; Fuel Heater (Diesel); Water Sensor (Diesel)
LIGHTING	Headlight and Panel Dimmer Switch; Courtesy Fuses
BATT	Battery; Fuse Block Busbar
IGN-A	Ignition Switch
IGN-B	Ignition Switch
ABS	Antilock Brake Module
BLOWER	Hi Blower and Rear Blower Relays
STOP/HAZ	Stoplights



BULB REPLACEMENT

When replacing a bulb, ensure that all the lights and the engine are off. Do not touch bulbs with bare hands. Greasy fingers will cause stains which evaporate, eventually resulting in a dull light. Grease spots on Halogen bulbs will, within a short time lead to bulb failures. Accidentally stained bulbs may be cleaned with tissue paper, or a clean, non-fuzzy cloth, using alcohol or white spirits.

CAUTION: Halogen bulbs contain pressurized gas. If the bulb is dropped or scratched, it could burst, resulting in injury to you or others. Be sure to read and follow all instructions on the bulb package.

Headlights

1. **Sealed beam headlights**: Remove the four screws from the headlight retainer.
   Composite headlights: Remove the two screws from the top of the radiator support.
2. Pull out the headlight assembly. For sealed beam headlights, remove the retainer.
3. Unplug the wiring connector and remove the headlight. Note that for composite headlights, you must turn the bulb anti-clockwise to remove it.
4. To install the replacement bulb, reverse the procedure.

Front parking/turn signal light

1. **Sealed beam headlights**: Remove the two screws at the inside edge of the light assembly. Swing the assembly out from the inside edge and then slide it out from the outer edge.
   Composite headlights: Remove the screws and take out the light assembly.
2. Squeeze the tab on the side of the light socket while turning the socket anti-clockwise.
3. Pull the socket out of the light assembly.
4. While gently pressing it in, turn the bulb anti-clockwise and remove it from the socket.
5. To install the replacement bulb, reverse the procedure. Note, however, that there is no need to squeeze the tab on the side of the socket when replacing the socket into the light assembly.

BULB REPLACEMENT cont.

Sidemarker lights (if fitted)

1. Remove the screws and pull out the parking/turn signal light assembly.
2. Reach through the opening and turn the sidemarker bulb socket to the left to remove it.
3. Pull the bulb straight out of the socket.
4. To install the replacement bulb, reverse the procedure. When placing the new bulb into the socket, be sure to push it in until it is tight.

Center high-mounted stoplight

The individual bulbs in this light assembly are not replaceable. See your Holden Dealer for assistance.

Roof marker lights (if fitted)

1. Remove the screws and lift off the lens.
2. Pull the bulb straight out of the socket.
3. Put the new bulb into the socket. Push it in until it is tight.
4. Replace the lens and tighten the screws.

Rear lights

1. Open the tailgate or rear doors.
2. Remove the two black plastic plugs from the rear light assembly access holes.
3. Remove the two assembly screws inside the fender using a magnetic screwdriver and pull out the light assembly.
4. Remove the screws from the bulb retainer. Remove the retainer from the assembly.
5. Pull the bulb straight out of the socket.
6. To install the replacement bulb, reverse the procedure. When placing the new bulb into the socket, be sure to push it in until it is tight.

CONTAMINATED FUEL (diesel)

Note: Diesel fuel is flammable. Do not let it contact hot engine parts and keep matches or other ignition sources away.

It is possible for water to be pumped into your fuel tank along with the diesel fuel. Driving with contaminated fuel could damage the fuel injection system and the engine. Sometimes, the engine will not start or will start, and then immediately stall after refilling the tank. Or, you may eventually notice that the engine is just not running properly. If you suspect that the fuel may be contaminated, you should turn off the engine right away. The water must be drained immediately.

If you experience hard starting or hesitation, or if the vehicle performs poorly at high speeds or during hard acceleration, the fuel filter may also need to be replaced. Refer the following procedures.

If it is possible that a large amount of water was just pumped into the fuel tank, the fuel tank may need to be purged. See your Holden Dealer for assistance.

Draining water from the fuel filter

The fuel filter has a sedimentor chamber for settling water separated from fuel.

Park in a safe place, turn off the engine and apply the parking brake.

Remove the fuel cap.

Place a suitable container under the filter drain (at the bottom of the fuel filter). IMPORTANT: Check that the ignition is in the OFF position before opening the water drain.

Slowly open the water drain valve (at the bottom of the fuel filter).

Allow the filter to drain until clear fuel is observed.

Close the drain valve.

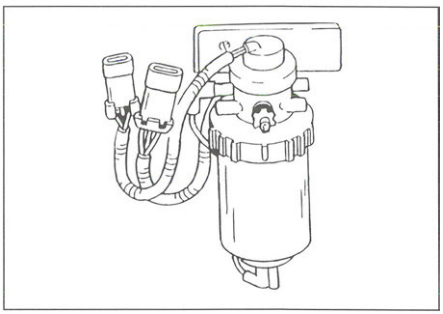
After restarting the engine, check to see that no fuel leaks from the drain valve.

If the fuel filter requires frequent draining, have the fuel tank purged for removal of water at your Holden Dealer.

Note that if there is water in the fuel and the weather is warm or humid, fungus and bacteria could grow in the fuel and damage the system. Your dealer can recommend a diesel fuel biocide to sterilise the system.

CONTAMINATED FUEL (diesel) cont.

Fuel filter replacement



The fuel filter is located on the inside of the left chassis rail toward the front of the vehicle.

First, perform the above procedure for draining water from the fuel filter. Then, make sure the engine is turned off and the parking brake is set.

Remove the fuel cap. Unscrew and remove the ring nut from the top of the filter head.

Then, lift the element out of the filter head using the pull tabs. If there is any dirt on the element sealing surface of the filter head, clean it off.

Line up the widest slot in the top of the new element with the widest key on the top of the filter head. The word **FRONT** on the filter should face the front of the vehicle. Push the element in until the mating surfaces touch. Be sure that the seal has not been dislodged from the new element during installation.

Connect a 5/16 inch (8 mm) inside diameter hose or tube to the top of the air vent valve and lead hose into a fuel-resistant container.

Replace and tighten the ring nut to the top of the filter head.

With the air bleed valve open, turn your ignition key to the START position for 10 to 15 seconds. Wait one minute for your starter to cool. Do this until you can see clear fuel coming from the air bleed valve. If no liquid comes out, your vehicle needs service.

Close the air bleed valve, remove the hose and replace the fuel cap.

Start your engine and let it idle for five minutes. Check your fuel filter and air bleed valve for leaks.

RUNNING OUT OF FUEL (diesel)

If the fuel tank has been emptied, the chance is that air might have entered the fuel system. With air in the fuel system, smooth flow of fuel into the engine is interrupted and to correct this, bleeding of the fuel system should be performed after refuelling.

To check if you are out of fuel:

1. Open the fuel filter air bleed valve.
2. Briefly crank the engine and have someone watch the bleed valve. If there is air, then you are probably out of fuel.

Bleeding the fuel system (to restart the engine):

Note: Diesel fuel is flammable. Do not let too much fuel flow from the air bleed valve or it could get on hot engine parts and start a fire. Also, wipe up any spilled fuel.

1. Add at least 8 litres of fuel to the tank if the vehicle is parked on a level surface, or you may need to add up to 19 litres if parked on a slope.
2. With the air bleed valve open, turn the ignition key to START for 10 to 15 seconds to crank (but not start) the engine, then wait for one minute between intervals of cranking to allow the starter motor to cool.

   Keep doing this until you can just see some clear fuel at the air bleed valve.

   NOTE: If the engine starts at any point during this step, you should turn off the ignition and close the valve before restarting.
3. Close the air bleed valve and turn the ignition to START for 10 to 15 seconds at a time until the engine starts.

AIR BAG

Your vehicle may be fitted with an air bag system. This means that an air bag is fitted in the centre of the steering wheel for the driver.

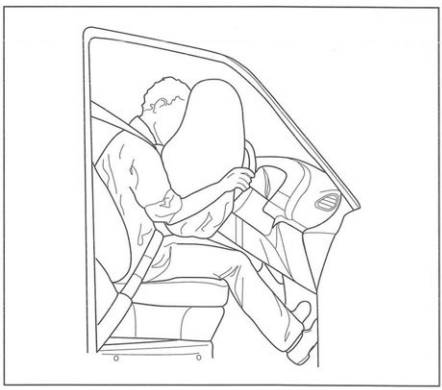
If your vehicle is involved in a severe front end collision, the air bag will inflate, assisting the seat belts to restrain forward body movement.

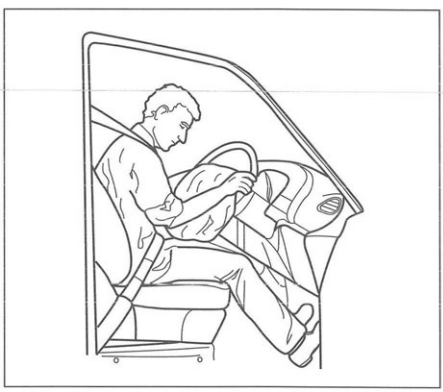
An operating noise may be heard and a small amount of smoke-like gas will be released. The gas is harmless and does not indicate malfunction or fire.

The air bag will then deflate - the whole process *only taking a moment*.

The air bag assists, but does not replace the seat belts. Air bags are not designed to inflate in rear, side or low-speed frontal collisions, or if the vehicle overturns. *Seat belts (by law) should be worn by all passengers whenever the vehicle is moving.*

Air bags inflate with great force. If you are too close to an inflating air bag it could seriously injure you. Seat belts help keep you in position for air bag inflation in a crash. The driver should sit as far back as possible while still able to maintain control of the vehicle.





The air bag light on the instrument panel will blink for a few seconds when the ignition is switched ON, then go out. This is to indicate that the air bags are operational. If the light does not turn on when the ignition is switched to ON, have it fixed so it will be ready to warn you if there is a problem. If it stays on or comes on when you are driving this may indicate that there is a fault in the air bag system and you should contact your Holden Dealer.

Take care not to damage or open the air bag cover. Otherwise, the bag may not work properly and you may need to replace the air bag module.

If the air bag system is handled incorrectly it can be set off for up to 10 seconds after the ignition has been turned off and the battery has been disconnected and this could cause injury. Be sure to follow proper service procedures, and make sure that the person performing the work for you is qualified to do so.

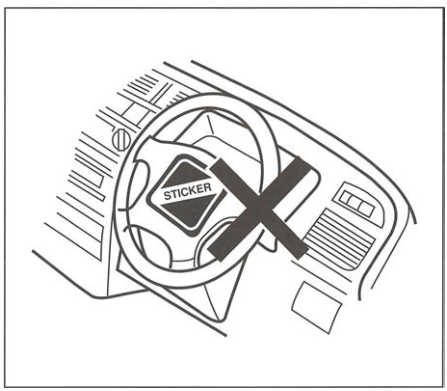
After use, the whole air bag system will have to be replaced by your Holden Dealer.

The system does not require regular maintenance, however it should be inspected by a Holden Dealer if the steering wheel is scratched, cracked or damaged.

AIR BAG (cont.)

CAUTION:

The horn pad must not be covered with adhesive or any other material, as this may hinder air bag operation. The space around the steering wheel must also be kept clear with nothing around this area or hanging from the sun visor. Otherwise, the air bag might not inflate properly or it might force an object into the driver.



Extensive design and testing has gone into the air bag system. It is extremely reliable and has very little chance of accidental inflation. It should however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental inflation. Any work to the electrical system, steering column, dash board area, steering wheel or air bag system should *only* be carried out by an authorised Holden Dealer.

BULL BAR NOTE: Fitting a "bull bar", relocating the air bag sensors or making other modifications to the front of the vehicle, may change the impact speed which would normally cause the air bag to inflate, reducing its effectiveness.

CHAPTER 7

Weekly checks

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MISCELLANEOUS CHECKS

As well as taking your vehicle to be serviced (refer Chapter 12) there are a few simple, weekly checks that the owner (or Nominee) is required to make. These are shown on the following pages.

CAUTION: Engine cooling fans can start working unexpectedly, even when the engine is not running. To avoid injury from a fan, keep hands, clothing and tools away from any fans and make sure the ignition key is switched OFF, so that the fan cannot start operating.

CAUTION: Electronic ignition systems have a high ignition power. Do not touch the ignition system; this could be highly dangerous.

CAUTION: Things that burn, such as fuel, oil, coolant, brake fluid, washer fluid, plastic or rubber, can get on hot engine parts and start a fire. You or others could be burned. Be careful not to drop or spill things that burn onto a hot engine.

The following checks should also be regularly done to ensure safety of your vehicle.

Check:

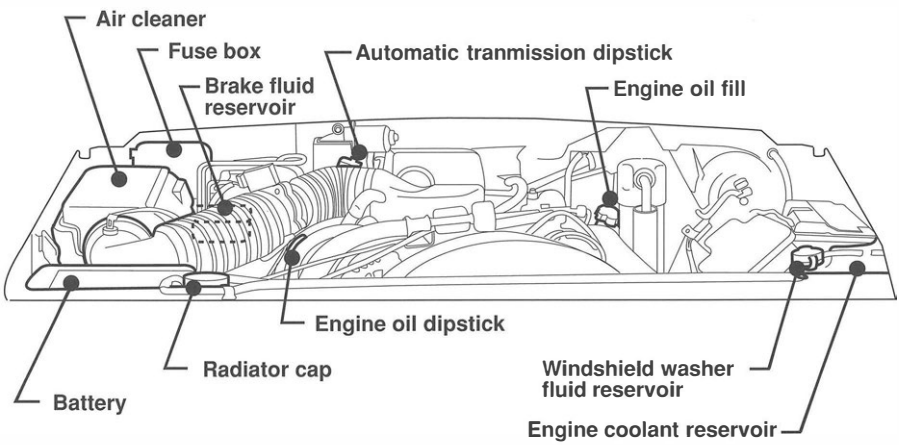
- that all exterior lights are working and that their appropriate interior indicators light up.
- that mirrors and glass are clean and not scratched.
- the aim of water on the windscreen or tailgate glass and the condition of the wipers.
- that the demister operates.
- that the horn works.
- the condition and operation of all seat belts and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted. Also check that the seat belt reminder light on the instrument cluster is working properly.
- the condition of the airbag cover. Also check that the airbag light on the instrument cluster is working properly.

Service manuals

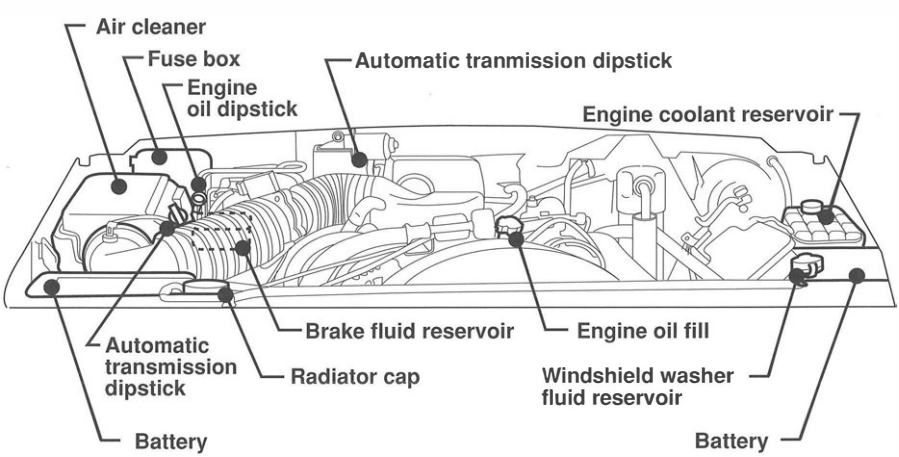
Holden also publishes various service manuals which are available from your Dealer.

CHECK LOCATIONS

Petrol engine

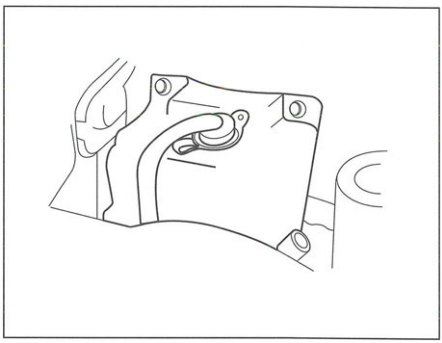


Diesel engine



ENGINE COOLANT LEVEL

To check the coolant level



The coolant level should be checked at least weekly. This is simply a matter of looking at the level in the plastic tank.

When the engine is cold, the coolant level should be at or above the **COLD** mark on the container. After the vehicle has been driven and the engine is at normal operating temperature, the level should be closer to the **HOT** mark on the container. DO NOT OVERFILL.

To add coolant

The cooling system in your vehicle is factory filled with DEX-COOL® engine coolant. If you add only this extended life coolant, the coolant is designed to remain in your vehicle for 5 years or 100,000 km, whichever occurs first.

If the plastic coolant tank requires topping up, first pre-mix a solution of 50% DEX-COOL® or equivalent silicate-free organic acid technology type coolant and 50% water (preferably distilled).

Ensure the ignition is switched OFF.

Undo the cap on the top of the plastic tank, add the pre-mixed solution and secure the cap.

Failure to use the coolant meeting Holden's specification or maintaining the specified concentration may result in voiding your warranty.

Note that adding only plain water or any other liquid can be dangerous. It could boil at a temperature lower than what the cooling system is set for and you would not receive the overheat warning. The engine could catch on fire and you could be injured.

The specified long life coolant works in three ways: it contains special corrosion inhibitors, it helps the cooling system in hot weather by increasing the boiling point up to 129°C and in addition it protects against freezing in cold weather conditions down to -37°C, provided the correct concentration is maintained.

If you regularly have to top up the cooling system (more than four times a year) you should see your Holden Dealer.

If you use the proper coolant, you don't have to add any extra inhibitors or additives. These could actually be harmful.

CAUTION: Corrosion inhibitors and anti-freeze fluids are poisonous. Use extreme care when handling. If swallowed, seek medical attention.

CAUTION: Do not remove the radiator cap or plastic coolant tank cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

CAUTION: Take care not to spill coolant on hot engine parts.

Refer Chapter 6 if engine overheats.

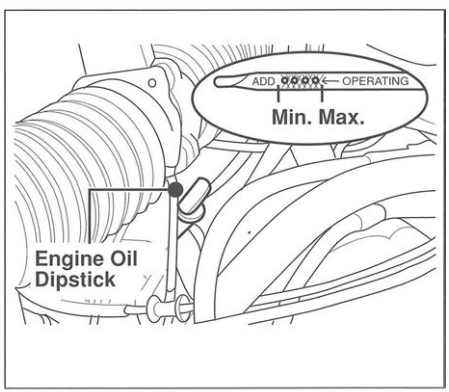
ENGINE OIL LEVEL

To check the level

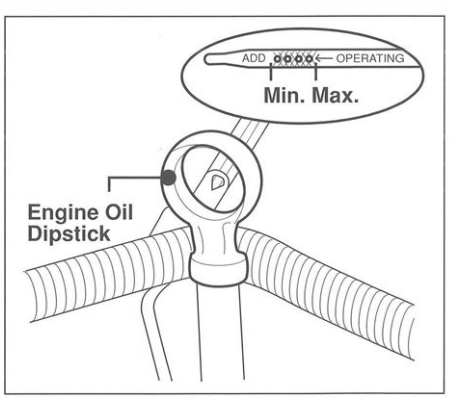
- The oil level should be checked weekly.
- Check the level when the oil is warm, such as when stopping for fuel.
- The vehicle must be on level ground.
- After switching off the engine, wait a few minutes for the oil to settle.

The level is checked from the dipstick with the yellow ring handle.

Remove the dipstick and wipe it clean with a clean cloth or paper. Insert the dipstick firmly all the way down, pause for a second then withdraw the dipstick and look at the oil level on it.



The oil level should be maintained within the operating range, going neither above the maximum level mark nor below the **ADD** mark. Remember to re-insert the dipstick firmly after taking the reading.



ENGINE OIL LEVEL cont.

To add oil

- Petrol engines use SG, SH, SJ or better quality engine oil, of 10W-30 viscosity.

- Diesel engines use CG-4 quality engine oil of SAE 15W-40 viscosity. If CG-4 quality oil is not available, you may use CF-4/SH oil. If it is going to be colder than 0°C, SAE 10W-30 viscosity oil may be used to improve cold starting. Also, at temperatures above 0°C, SAE 30 viscosity oil may be used.

If the oil level is at or below the **ADD** mark, then you need to add at least one litre of oil. To add oil, remove the oil cap on top of the engine. Pour the required oil into the opening. To determine the oil fill capacity, refer "Engines" in Chapter 8. Wait a few minutes for the oil to settle. Then check the oil level with the dipstick again. If still too low, add more oil. Be sure not to add so much oil as to take the level above the OPERATING RANGE mark, or engine damage may result.

When correct, replace the cap and the dipstick.

If you check the oil level when the oil is cold do not run the engine first, as the cold oil will not drain back into the oil pan fast enough to give an accurate reading.

NOTE: Do not add anything to your oil. Your dealer is ready to advise you if you think something should be added. Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune-up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may also damage the engine.

Refer "Maintenance schedule" in Chapter 12 for the recommended oil change intervals.

CAUTION: Used oil is a health and environmental threat. Refer to the manufacture's warnings about the use and disposal of oil products.

ENGINE OIL CONSUMPTION

Every internal combustion engine uses a certain amount of oil, especially when running-in. The engine is dependant on oil for lubricating the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine: worn pistons, rings, valve stems and guides; the way in which the vehicle is operated; the quality and grade of oil; the oil level, and dilution of the oil.

- **Operation of the vehicle**

High speed driving and heavy towing increase engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away.

- **Quality and grade of oil**

Oil viscosity is a significant factor in oil consumption. If you use an oil which is too "thin" (low viscosity) your oil consumption will increase. Use only the recommended grades of oil.

- **Oil level**

Maintaining a proper oil level is also an important factor in controlling oil consumption. An over full engine will splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

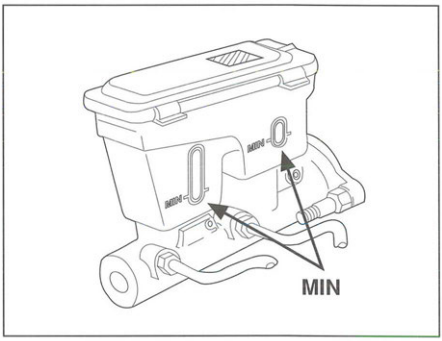
- **Dilution**

Probably the most prevalent complaint of oil consumption comes from the driver whose vehicle is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1,500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the FULL mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil "lost" has been consumed in the highway operation.

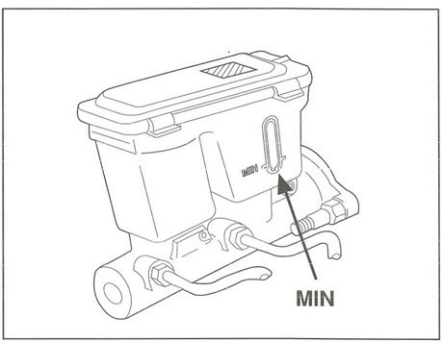
If, after taking into account the above factors you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden Dealer. Remember that an engine's oil consumption should not be judged until it has run at least 7,000 km.

BRAKE FLUID LEVELS

The brake fluid level in the master cylinder should be checked weekly. The fluid level, visible through the windows on the master cylinder, should be maintained above the **MIN** (minimum) level markings on the master cylinder but should also be visible below the tops of the windows. If the fluid is between these levels do not remove the cap, as brake fluid will quickly absorb moisture if exposed to the atmosphere.



Note that it is not a good idea to repeatedly top up the brake fluid. There are only two reasons why the fluid level might drop. The level may drop gradually to an acceptable level due simply to normal brake lining wear. Once the linings are replaced, the level would go back up. The other reason is that there is a fluid leak. Topping up the fluid would not correct the leak. The brake system must be serviced. You should add (or remove) brake fluid, as necessary, only when work is done on the brake hydraulic system.



If fluid does need to be added, first ensure that the ignition is switched to OFF.

Wipe clean the cap and the area around it. Remove the cap. Top up with heavy duty brake fluid, which meets specification SAE J1703, DOT-3. Remember to replace the cap.

Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

CAUTION: Be sure not to spill or add too much brake fluid. If you spill fluid on a hot engine, it could catch on fire.

Take care when handling brake fluid. Flush with lots of water if it is spilt on skin or your vehicle. If it gets in your eyes, flush with lots of water and see a doctor as soon as possible.

AUTOMATIC TRANSMISSION FLUID LEVEL

The automatic transmission fluid level may be checked by your Holden Dealer when the vehicle is serviced.

If an oil leak is seen before the service is due you should consult a Holden Dealer as soon as possible.

The transmission fluid level should be replaced at the intervals listed in the Maintenance Schedule, shown in Chapter 12.

The automatic transmission fluid level should be checked at least twice a year by looking at the fluid level on the dipstick. For ease of finding, the dipstick handle is coloured red. Refer to the check locations diagram at the beginning of this chapter for exact location.

Be sure to follow all the instructions below or you could get a false reading. Too much or too little fluid can damage the transmission.

Cold check

If the vehicle has been sitting for eight or more hours with the engine off, you may perform a cold check to use as reference. Let the engine run at idle for five minutes if outside temperatures are at least 10°C. If it is colder, you may need to idle the engine longer. You may then go on to perform the fluid check procedure below. If, however you find that the fluid level is low (below the area marked **COLD**), you MUST perform a hot check (below) before adding fluid.

Hot check

To ensure a proper reading, the fluid should be at normal operating temperature (82°C to 93°C). Therefore, if you have been driving in hot weather conditions (above 32°C), at high speeds for an extended time, in heavy traffic (especially in hot weather), or while pulling a trailer, you should wait at least 30 minutes before checking the fluid level. Also, if the vehicle has not just been driven and the outside temperature is above 10°C, it should be warmed up by driving about 25 km.

If it is colder than 10°C, drive the vehicle in third gear until the engine coolant temperature gauge moves and then remains steady for 10 minutes.

AUTOMATIC TRANSMISSION FLUID LEVEL cont.

FLUID CHECK PROCEDURE

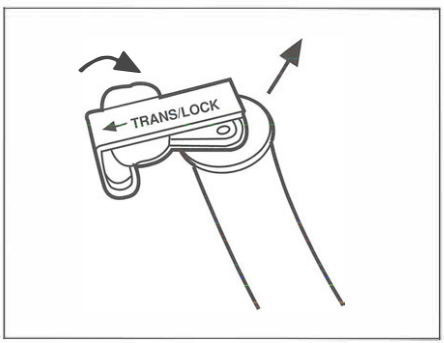
The car must be standing on level ground with the engine running.

The gear shift selector should be in **P** (Park) and the park brake applied.

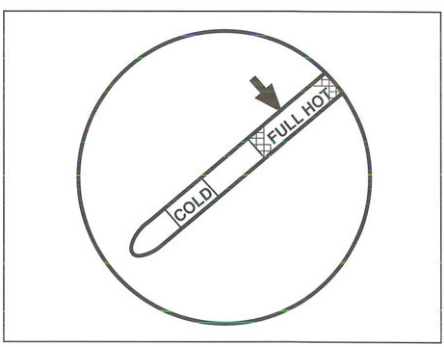
With your foot on the brake pedal, move the shift lever through each gear range, pausing for about three seconds in each range. Then, shift back into **P** (Park) and let the engine idle for at least three more minutes.

Do not turn off the engine.

Unclip the handle and remove the dipstick. Wipe the dipstick clean with a clean cloth or paper and re-insert it fully. Wait three seconds and remove it again. Check both sides of the dipstick and read the lower level.



The fluid level should be showing on the cross hatched **HOT** area for a hot check or on or above the **COLD** mark for a cold check.



The level should NEVER read over the **FULL HOT** mark, so if you must add fluid, be sure not to add too much. Add only enough to put the level within the cross hatched area. You should not need more than one half litre.

Use only DEXRON®III automatic transmission fluid. Add the fluid in the dipstick tube (the same opening as the dipstick is stored in) and wait one minute for the oil to settle. Again check the level on the dipstick with the engine running and add further fluid if necessary. Remember to always replace the dipstick and lock the handle down.

If fluid has to be added often (more than four times a year), there may be a problem or leak and you should see your Holden Dealer.

NOTE: The cold markings on the dipstick should generally only be used as an indication when initially filling the transmission after the fluid has been completely drained. It should be rechecked when hot.

POWER STEERING FLUID LEVELS, WASHER FLUID LEVEL

It is not necessary to regularly check the power steering fluid unless you suspect there is a leak in the system or you hear an unusual noise. A fluid loss in this system could indicate a problem. Have the system inspected and repaired.

Fluid check

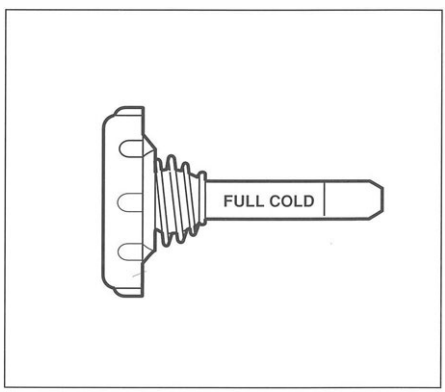
The power steering dipstick is attached to the underside of the cap.

When the engine compartment is cool, wipe the cap and the top of the reservoir clean. Unscrew and remove the cap and dipstick. Wipe the dipstick with a clean cloth. Replace the cap and completely tighten it. Remove the cap again and check the fluid level on the dipstick.

The level should be at the **FULL COLD** mark. If necessary, add only enough fluid to bring the level up to the mark.

Use power steering fluid.

Do not over fill. Remember to replace the cap tightly.

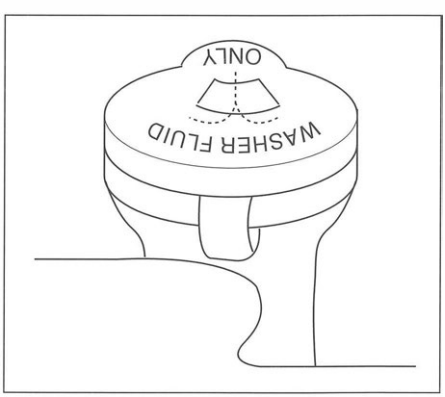


Washer fluid level

The container shown supplies water to both the front windscreen washer and the rear window washer (if fitted).

As washer fluid is constantly used, the level should be checked and topped up weekly.

For a crystal clear windscreen, the correct amount of Optikleen (part number 92140005) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers. Ordinary water could freeze and damage the washer system. Also, be sure not to use radiator antifreeze.



Add fluid until the tank is full.

Make sure the cap is secured.

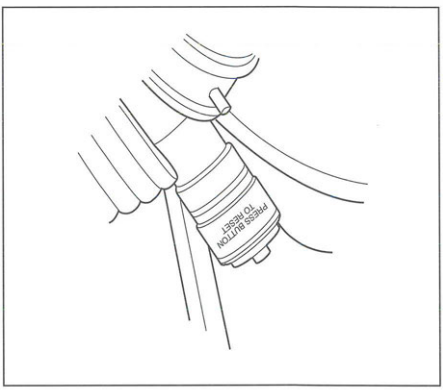
AIR CLEANER

The air cleaner assembly has an indicator that lets you know when the air filter is dirty and needs to be serviced.

It is recommended that the indicator be checked at every engine oil change.

The indicator is located in the air intake tube between the air cleaner and the engine.

If the area inside the clear section of the indicator is green, no air filter service is required. When the area inside the indicator is orange and **CHANGE AIR FILTER** appears, the filter should be replaced.



To remove the air filter, unhook the retainer clips and remove the cover. Lift the filter and the connected duct out of the air cleaner housing. Hold the duct and remove the filter by both pulling and twisting the filter away from the duct. Care should be taken to dislodge as little dirt as possible.

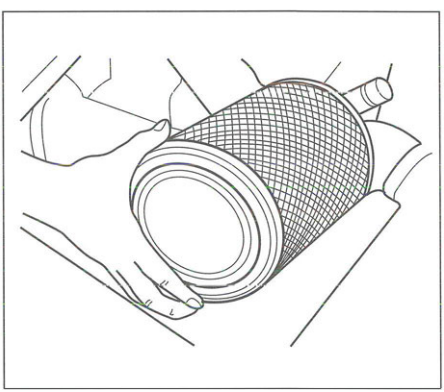
Clean the filter sealing surface of the duct and the filter housing.

Install the new filter by pushing it all the way to the stop on the duct.

Install the duct and the filter into the air cleaner housing. Make sure that the duct fits properly into the housing.

Install the cover and fasten the two retaining clips.

After the air filter is properly serviced, the indicator should be reset. Push the button on top of the indicator to reset it to the green (clean) filter zone.



CAUTION: Operating the engine with the air cleaner off can cause you or others to be burned. The air cleaner not only cleans the air and keeps damaging dirt from entering the engine, it also stops flames if the engine backfires. If it isn't there, and the engine backfires, you could be burned. Always have the air cleaner in place when you're driving and be careful working on the engine with the air cleaner off.

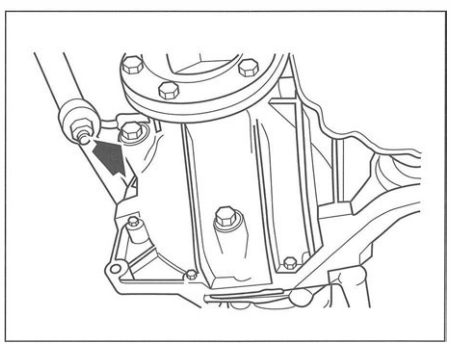
AXLE LUBRICANT

The following levels may be checked for you when you take your vehicle to your Holden Dealer for servicing. They should be checked at every engine oil change. Refer Chapter 12 for the recommended service intervals. It is also recommended that after crossing deep water the following oil levels should be checked as soon as possible:

- rear axle
- front axle
- transfer case

If the level has increased (indicated by fluid running out of the filler hole) it could be caused by water entry. The water is heavier than oil and will therefore sit on the bottom. If the level is increased, drain a cupful of oil from the drain plug to check for water contamination or colour change (the oil should be clear). If there is any evidence of water the oil should be replaced so as to avoid serious vehicle damage. If you are unsure, you should contact your Holden Dealer.

Front axle



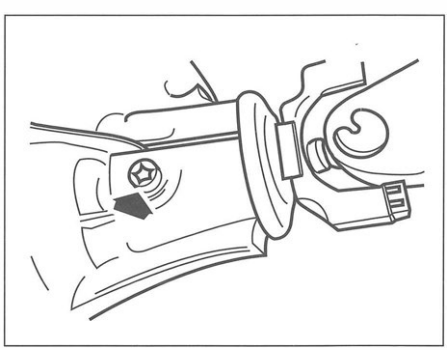
To ensure a correct reading, the vehicle should be parked on a flat surface. For your safety, check that the shift lever is in Park and the park brake firmly applied.

Remove the filler plug. The oil should come to the bottom edge of the hole. If it does not, and the differential is at operating temperature (warm), add enough oil to raise the level to the bottom edge of the hole. If the differential is cold, add enough to raise the level to 12 mm below the hole. Replace the plug and tighten it.

The correct type of oil is listed in Chapter 8.

After replacing the plug, visually check the transfer case for leaks or damage.

Rear axle



To ensure a correct reading, the vehicle should be parked on a flat surface. For your safety, check that the shift lever is in Park and the park brake firmly applied.

Remove the filler. The oil should come to the bottom edge of the hole. If it does not, add enough oil to raise the level to the bottom of the hole.

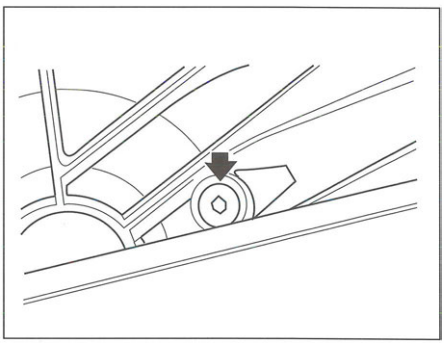
The correct type of oil is listed in Chapter 8.

Replace the plug and tighten it.

After replacing the plug, visually check the transfer case for leaks or damage.

TRANSFER CASE LUBRICANT

Transfer case



To ensure a correct reading, the vehicle should be parked on a flat surface. For your safety, check that the shift lever is in Park and the park brake firmly applied.

Check that the fluid level reaches the bottom of the plug hole by removing a filler plug on the transfer case. If the fluid level is low, refill the case up to the filler plug hole.

The correct type of oil is listed in Chapter 8.

After replacing the plug, visually check the transfer case for leaks or damage.

TYRES

Tyre air pressure

Weekly checking of the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres.

For constant long distance or rough road driving, daily checking is recommended.

The correct pressure for your tyres is shown on the tyre placard, located on the rear edge of the driver's door.

Tyre inflation pressure increases when the tyres have been driven more than 1.5 km. Therefore, the pressure should be checked when the tyres have been stationary for over 3 hours. If they must be checked while driving allow 10% more pressure.

Always use a tyre pressure gauge to check the tyres - simply looking at the tyres is not sufficient.

Remember to replace any valve dust caps or extensions, as this stops dirt and moisture from fouling the valves.

If the pressure is too low, considerable tyre warm up and internal damage can occur, leading to tread separation and even to a tyre blowout at high speeds. Hidden tyre damage cannot be fixed by adding air afterwards. Do not under- or over-inflate the tyres.

Tyre condition, rim condition

Driving over sharp edges can lead to hidden tyre damage and rim damage, which can lead to tyre blowout.

Drive over edges slowly and at right angles if possible. When parking, ensure that the tyres are not pressed against the edge of the curb.

Check the tyres regularly for damage: stones, punctures, cuts, cracks, bulges etc. Check the rims for damage. Consult a Holden Dealer if in doubt.

Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the vehicle to pull to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear.

If you suspect either of the above problems exists have a wheel alignment and balance check carried out by your Holden Dealer.

TYRES cont.

Tyre rotation

Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment, balance, tyre pressures etc.

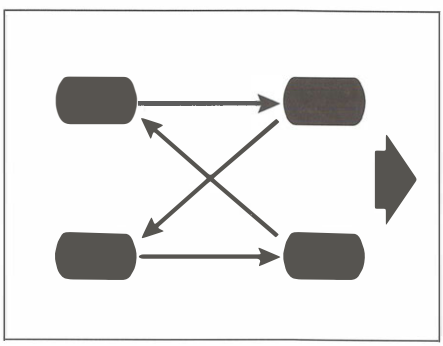
Tyres should be rotated every 10,000 km..

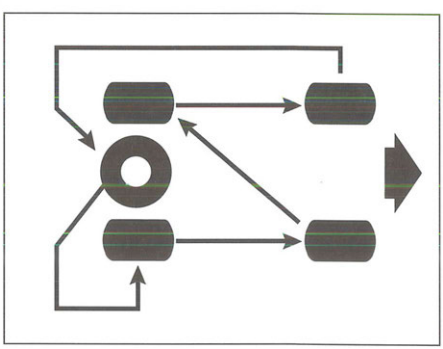
The purpose of regular rotation is to achieve more uniform wear for all tyres on the vehicle.

Any time you notice unusual wear, rotate the tyres as soon as possible and check the wheel alignment. Also, check for damaged tyres or wheels.

When rotating the tyres, always use one of the correct rotation patterns shown.

After the tyres have been rotated, adjust the front and rear inflation pressures as shown on the tyre placard, and ensure that all wheel nuts are properly tightened.





CAUTION: Remove any rust or dirt from where the wheel attaches to the vehicle. Otherwise, the wheel nuts may become loose and the wheel could fall off while you are driving.

TYRES cont.

Replacement and repair

Replacing your factory-fitted wheels and tyres with non-specified wheels and tyres may affect your warranty as well as your insurance policy. Refer to tyre placard on your vehicle for tyre size and load rating. Refer Chapter 8 for tyre placard location. Using a different size or type of tyre may affect such things as ride, handling, speedometer, vehicle ground clearance, tyre clearance or snow chain clearance.

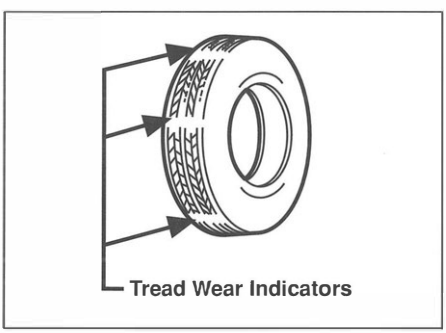
Take care when using tyres with heavy treads, including tyres made for better grip in the wet. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer. Any doubts about the tyres on your vehicle should be referred to your Holden Dealer.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

The tyres originally fitted to your vehicle have built-in tread indicators which show up when the tyres are worn and have only 1.6 mm or less of tread left.

You should replace your tyres when:

- The tyres are worn to the point where the tread indicators appear at three or more places around the tyre, or the cord or fabric is showing.
- The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.
- The tyre has a bump or bulge in it, indicating some kind of internal damage.
- The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.



Tread Wear Indicators

Do not attempt to drive on the flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded will not be able to be driven safely at high speeds. Therefore, their use is not recommended.

TYRES cont.

Wheel replacement

Wheels should be replaced if damaged, for example if rusted, bent, cracked, corroded or if wheel nuts often become loose. If the wheel nuts often become loose, the wheel bolts and wheel nuts should also be replaced. Steel wheels that allow air to leak should be replaced, aluminum wheels can often be repaired.

Replacement with used wheels is not advised as they may have been subjected to harsh treatment and could fail without warning.

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed in your vehicle. A wheel(s) of the wrong size or type can affect load carry capacity, wheel and bearing life, brake cooling, speedometer accuracy, stopping ability, headlight aim, bumper height, vehicle ground clearance and tyre chain clearance. Your Holden Dealer can assist you in choosing the right wheels.

Before fitting wheels, remove any build-up corrosion on the mounting surface and brake disc mounting surface by scraping and wire brushing. Installing wheels without good metal-to-metal contact can cause the wheel nuts to loosen, which could result in a wheel coming off while driving.

Tyre traction

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydro-planing, may cause partial or complete loss of traction, which adversely affects vehicle control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed.

1. Reduce speed levels during rainstorms or when roads are slushy and if the road has standing water or puddles.
2. Replace tyres when tread is worn down to 1.6 mm.
3. Check that tyres are properly inflated.

If your vehicle has snow tyres, be sure they are the same size, load range and construction type as your other tyres. Vehicle speed should be limited when equipped with snow tyres.

TYRES cont.

Tyre chains

- Use tyre chains only where legal and only when you must.
- If your vehicle has 245/75R16 size tyres, there is not enough clearance for the use of tyre chains. Do not use them.
- Only use traction devices that are recommended for use with your vehicle-to-tyre size combination, and only for specified road conditions. Follow the manufacturer's instructions.
- Follow the chain manufacturer's instructions.
- Install the chains on the rear tyres only.
- Tyre chains should be tightened as much as possible, with the ends securely fastened.
- Drive slowly and readjust or remove the device if you can hear them contacting your vehicle.
- Do not spin the wheels.
- Drive in a restrained manner and avoid large bumps, potholes, severe turns or other manoeuvres which could cause the vehicle to bounce up and down.

BATTERY

Battery maintenance

The battery is "maintenance-free". This means that the battery is sealed and the level does not have to be checked.

Flat battery

Refer Chapter 6 for emergency starting when the battery is flat.

Note that if you are not going to drive your vehicle for 25 days or more, you should disconnect the black, negative (-) cable from the battery. This will help keep your battery from running down. Contact your dealer to learn how to prepare your vehicle for longer storage periods.

Battery replacement

12V, 600CCA, 78A

CAUTION:

Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. You should therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with a lot of water and contact a doctor immediately.

Take care with all metal objects and tools including items you may wear (e.g. jewellery) near battery terminals. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user or wearer.

Notes

CHAPTER 8

Specifications

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8-2 Lubricants
8-3 Body dimensions
8-4 Identification plates

SPECIFICATIONS

Lubricants

		PETROL	DIESEL
Engine type		5.7 litre, V8 petrol	6.5 litre V8 diesel
Engine oil	Specificaiton	SG, SH, SJ or better, viscosity 10W/30	CG or CF, viscosity 15W/40
	Capacity inc. filter	4.8 litres approx.	7.57 litres
Coolant	Specification	50% water (preferably distilled) and 50% DEXCOOL coolant	
	Capacity	19 litres	26 litres
Fuel	Specification	Unleaded fuel of at least 91 octane rating	ASTM No.2D Diesel fuel of at least 49 cetane rating
	Capacity	159 litres	159 litres
Auto. trans. fluid	Specification	DEXRON III	
	Capacity	4.7 litres	7.3 litres
Transfer case	Specification	Dexron III	
	Capacity	2.1 litres	
Axle fluid	Specification	SAE 80W/90, GL5 gear lubrication	
Brake fluid	Specification	Heavy duty brake fluid DOT 3, SAE specification J1703	
Power steering fluid	Specification	Power steering fluid Part No. 1052884-1PT , 1050017-1QT.	
Windscreen washer	Specification	Optikleen	

SPECIFICATIONS cont.

Lubricants cont.

Propeller shaft spline/universal joint and propeller shaft	NLGI 2
Chassis lubrication	
Front wheel bearings	
Hood latch assembly, pivots, spring anchor and release pawl	
Key lock cylinders	Light engine oil
Bonnet and door hinges	
Body door hinge pins, tailgate hinge and linkage, folding seat and fuel door hinge	
Outer tailgate handle pivot points	
Weatherstrip conditioning	Lightly coated with rubber lubrication

Dimensions

Length	5575.3 mm
Width, including mirrors	1948.2 mm
Height , unloaded	1854.2 mm
Wheel base	3340.0 mm
Road clearance – At curb height	Front: 193.0 mm Rear: 175.3 mm

	PETROL		DIESEL
	Steel Wheel	Aluminum Wheel	
Front track	1616.0 mm	1628.0 mm	1742.0 mm
Rear track	1610.0 mm	1622.0 mm	1624.0 mm

IDENTIFICATION LABELS

Tyre placard

The TYRE PLACARD is located on the rear edge of the driver's door.

Engine numbers

Individual engine numbers are stamped on each engine. The petrol engine number is on the right, front side of the cylinder block, in front of the engine mount. The diesel engine number is on the right, front side of the cylinder bolt, behind the alternator.

Service Parts Identification label

This plate, which may be located inside the glove box, carries the identification numbers of the option codes that have been built into the vehicle.

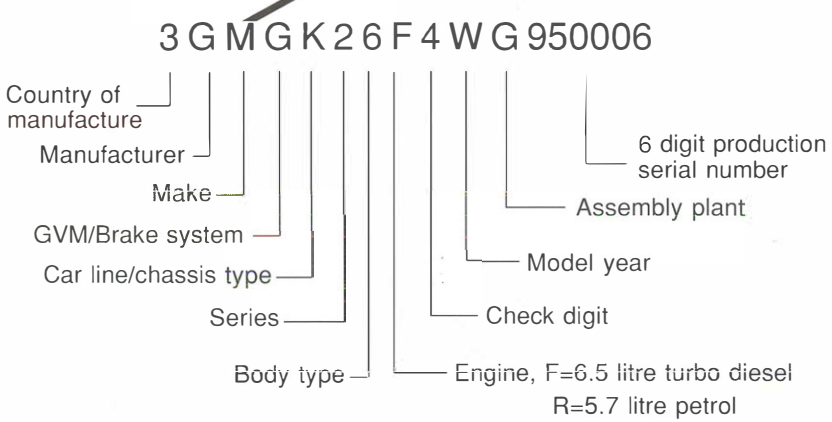
It also carries your I.S.O.V.I.N., the model designation and paint information.

Holden identification plate

The Holden Identification Plate is located on the radiator support panel. The number appearing on the plate should be used when identifying the vehicle, rather than the I.S.O.V.I.N. plate.Vehicle identification number (I.S.O.V.I.N.)

The vehicle identification number is stamped on the vehicle identification plate, which is visible from outside the vehicle through a small window at the base of the passenger's side of the windscreen.

The vehicle identification number also appears on the identification label.



CHAPTER 9

After sales

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9-4 Parts and Accessories Warranty
9-5 Warranty questions & answers
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9-28 **Suburban Dealers**

Note: Dealership names and details may change after the printing of this Handbook. The list contains both Authorised Holden Dealers and Authorised Holden Service Operations.

NEW VEHICLE WARRANTY CERTIFICATE

New Vehicle Warranty application

This Warranty is given by Isuzu-General Motors Australia Ltd. A.C.N. 006 962 572, ("I-GM"). The Warranty applies to the vehicle identified on the inside front cover of your Owner's Handbook. It is provided to the original and subsequent owners/operaters driving the vehicle within Australia during the Warranty Period.

This warranty is given in addition to all rights conferred by law on that person.

Owners of vehicles operated outside Australia should consult their local dealer about the warranty applicable to their vehicle.

Repairs covered

Subject to the exclusions shown below, this Warranty covers the correction, during the Warranty Period, of any vehicle defect related to materials or workmanship and advised to a Holden Dealer or Authorised Service Outlet, by repair or at I-GM's option by replacement.

Warranty period

The coverage commences from the date of delivery (or in the case of a demonstrator vehicle the date when the vehicle was first placed into service by the Dealer). The coverage expires at the end of the period of 3 years after the commencement date or after the vehicle has travelled 100,000 kilometres, whichever occurs first.

No charge

Warranty work undertaken (including parts and labour) will be carried out at no cost to the vehicle owner. However, this work should not be confused with servicing specified in the Maintenance schedule in Chapter 12 of your Owner's Handbook for which a charge is payable.

NEW VEHICLE WARRANTY CERTIFICATE cont.

Warranty exclusions

- **Damage**

  Your Warranty does not extend to following causes of damage:

  Damage caused by an accident, fire, theft or moving objects striking the vehicle.

  Damage caused by industrial fallout, chemicals or sealants.

  Damage caused by atmospheric fallout or flood, hail, salt, etc.

- **Maintenance items**

  Services such as, brake adjustment, replacement of filters, wiper rubbers etc., which are required as part of normal vehicle maintenance.

- **Tyres**

  The tyres (and tubes where applicable) fitted to your vehicle are not covered by this warranty. However, they may be covered by the tyre manufacturer.

- **Batteries**

  Batteries are warranted for 12 months from the commencement date of the warranty.

- **Misuse**

  The warranty does not cover damage caused by:

  (a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or neglect

  (b) operation of the vehicle after the defect is known

  (c) failure to carry out proper maintenance services

  (d) use of incorrect types and grades of fuel, oil or lubricants

  (e) alteration of the vehicle by anyone not authorised by I-GM

  (f) fitting of parts or accessories not marketed by I-GM

  (g) any work carried out on the vehicle by anyone except an authorised Holden Dealer or Service Dealer.

PARTS AND ACCESSORIES WARRANTY

I-GM warrants I-GM approved Parts and Accessories ("Parts" and "Accessories") for the periods and on the conditions set out below. The Warranty covers the correction, during the relevant Warranty Period, of defects in any such Parts and Accessories, by repair or at I-GM's option by replacement.

- **Accessories installed to the new vehicle**

  I-GM approved Accessories installed by a Holden Dealer or authorised Service Outlet to the new vehicle at the time of purchase are covered together with the New Vehicle warranty for the period of 3 years or 100,000 km, whichever occurs first.

- **Parts and accessories installed after new vehicle delivery by a Holden Dealer or authorised Service outlet**

  Parts and Accessories are covered for 2 years or 50,000km (whichever occurs first). If the vehicle is still within the New Vehicle Warranty the Parts and Accessories are covered by the later of:

  2 years/50,000 km (whichever occurs first)

  or

  the end of the New Vehicle Warranty.

  As an example, an Accessory installed in a 7 month old car would be covered until the end of the New Vehicle Warranty; an Accessory installed in a 2˚ year old car would be covered until the end of 4˚ years or a further 50,000km from when the Accessory was installed.

- **Purchased at retail or trade**

  Parts and Accessories purchased at trade or retail and installed by other than a Holden Dealer or authorised Service Dealer are warranted for 1 year from the date of purchase. Please keep a receipt to support warranty claims.

- **Parts and accessories warranty exclusions**

  The tyres (and tubes where applicable) are not covered by this warranty. However, they may be covered by the tyre manufacturer.

  Batteries are warranted for 12 months from date of purchase.

  Parts which are required as part of normal vehicle maintenance are warranted against manufacturing defect at the time of installation.

WARRANTY QUESTIONS

This section is designed to assist you in understanding the I-GM Warranty provided with your new vehicle.

The following are some of the most frequently asked questions, for which detailed answers have been provided.

Q 1. How do I go about obtaining I-GM Warranty Service?

It is the responsibility of the Selling Dealer to provide I-GM Warranty service, therefore you should take your vehicle to the Selling Dealer whenever I-GM Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook will be required by the Dealer.

Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the IGM New Vehicle Warranty?

You should contact the nearest Authorised Holden Dealer or I-GM Customer Assistance Service (refer further in this chapter) as soon as possible, and arrange for that Dealer to carry out the required I-GM Warranty Service.

Q 3. What should I do if, in an emergency, I-GM Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the I-GM New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is *not* practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with I-GM Warranty Service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and/or completion of any required I-GM Warranty Service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or I-GM Customer Assistance Service, prior to repairs being commenced.

Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the I-GM Warranty?

No, these items are not covered. I-GM warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the I-GM New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the I-GM New Vehicle Warranty, but any claim based on those rights should be separately pursued.

WARRANTY QUESTIONS cont.

Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the I-GM New Vehicle Warranty.

The Maintenance Schedules in this handbook specify the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay for include:

- Clutch facings
- Engine tune-up, including spark plugs replacement.
- Replacement of all filters.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after 5,000 km.
- Adding to (or replacing) lubricants.
- Adding to (or replacing) air conditioning refrigerant, after 5,000 km.
- Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- Wheel balancing - after 5,000 km.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads - after 5,000 km.
- Brake lining wear or damage.
- Brake disc pad or disc wear.
- Battery re-charging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment - after 5,000 km.
- Door, or bonnet lock adjustments.
- Glass or channel adjustments - after 5,000 km.
- Body rattle, squeaks and general tightening of bolts, fastenings and fittings - after 5,000 km.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.

Q 6. Are my tyres covered by the I-GM New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

WARRANTY QUESTIONS cont.

Q 7. Will I have to pay for any costs or expenses in connection with the provision of I-GM Warranty service?

All parts and labour used in carrying out I-GM Warranty Service at the premises of the Servicing Dealer are free of charge. Whenever I-GM Warranty service is to be carried out by the Servicing Dealer, it is your responsibility to deliver your vehicle to the Servicing Dealer's premises.

If, as a result of a defect which is covered by the I-GM New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required I-GM Warranty Service, I-GM will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and/or I-GM Customer Assistance Service (refer page 10 of this chapter) to obtain guidance.

Q 8. Would my vehicle's engine benefit from fuel additives, oil additives or coolant additives not marketed by I-GM ?

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your vehicle.

Only the fluids and lubricants referred to in this handbook should be used.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN'S PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any I-GM product or in connection with the supply of any I-GM product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by I-GM in its published sales literature, and the Company does not accept any such unauthorised action.

ROADSIDE ASSISTANCE

3 YEAR
24 HOUR ROADSIDE ASSISTANCE

Our commitment to your satisfaction

Holden's Roadside Assistance is part of the unequalled commitment by Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing and now beyond to the open road, Australia wide.

We hope the need never arises, but if it does, we'll be there to help through Holden Roadside Assistance.

How does Holden Roadside Assistance work?

Holden Roadside Assistance is provided by Holden Limited., and delivered by the collective resources of the Australian Automobile Clubs and Associations (the constituents of Assist Australia) the AA.

Which vehicles are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months.

Holden Roadside Assistance is extended to private and business vehicles, taxis, rental companies, all government and fleet operators.

What will Holden Roadside Assistance do for me?

Holden Roadside Assistance is designed to get you mobile on any road that is trafficable to normal two wheel drive vehicles. In the event of the unexpected happening, from your keys being locked in your car to mechanical and accident advice, help is readily available by simply calling the toll free number 1800 817 100.

All Holden luxury vehicles receive the added benefits of Holden Roadside **Ultra** Assist which includes accommodation, alternative transport, rental car, assistance in case of accident, theft and medical emergency and Australia wide vehicle recovery.

Can I upgrade to Roadside Ultra assist?

Yes, owners can upgrade to Holden Roadside **Ultra** Assistance for a fee by dialling 1800 645 668.

ROADSIDE ASSISTANCE cont.

When do the benefits begin?

Cover begins from the date of first registration. An interim card entitles you to immediately receive all the benefits of Holden Roadside Assistance.

Where can I get Roadside Assistance?

Holden Roadside Assistance is available to you at home, or at the roadside, anywhere in Australia, should you need it.

Is there a membership or joining fee?

No, Holden Roadside Assistance is complimentary with every new Holden passenger vehicle and light commercial vehicle for 36 months from the date of first registration.

What will Holden Roadside Assistance cost me?

Materials, fuel and spare parts must be paid for at the time of service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden's warranty can be claimed by contacting the local dealer.

What happens if I sell my vehicle?

Holden Roadside Assistance stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the service. The new owner simply registers for the service by using the change of ownership form supplied in the Roadside Assistance booklet.

How do I call for assistance?

Simply call Holden Roadside Assistance toll free on 1800 817 100 from anywhere in Australia. For further information regarding the service and full terms and conditions, refer to the Roadside Assistance Kit in the glovebox or call the toll free Customer Assistance Service Line on 1800 033 349.

CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation or servicing of your vehicle will be handled by your Dealer's Sales and Service Department.

We realize however, that, with the best intentions, misunderstandings do occur sometimes.

Therefore, we suggest you discuss any concern with one of the Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, the I-GM Customer Assistance office is at your disposal.

The Holden and Isuzu Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 9646 5466. Outside the Melbourne Metropolitan area, the number is 1800 033 349.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden's Service Parts Operations on (03) 9797 7341. Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager

Holden and Isuzu Customer Assistance Centre

GPO Box 1714

Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

- Your name and address
- Telephone numbers, both private & business
- Servicing Dealership's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of this Handbook.
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

HOLDEN DEALERS

N.S.W. Metropolitan

ARNCLIFFE
Suttons Motors Arncliffe P/L
93 Princes Highway
P: (02) 9335 9000 FAX: (02) 9335 9006

ASHFIELD
Muirs Holden
252 Parramatta Road
P: (02) 9798 8888 Fax: (02) 9799 7010

BALGOWLAH
Peninsula Holden
164 Condamine Street
P: (02) 9949 1888 Fax: (02) 9949 7237

BANKSTOWN
Princeton Holden
466 Chapel Road
P: (02) 9790 1234 Fax: (02) 9790 0033

BLACKTOWN
West City Holden
120~128 Sunnyholt Road
P: (02) 9622 7333 Fax: (02) 9671 7394

CAMPBELLTOWN
Paul Wakeling Holden
Cnr Blaxland & Campbelltown Rds
P: (046) 281 444 Fax: (046) 283 262

CASTLE HILL
Windsor Road Holden
Cnr Victoria Ave/Windsor Rd
P: (02) 9894 6666 Fax: (02) 9894 5600

CHATSWOOD
Sundell Holden
Cnr Smith & Gibbes Street
P: (02) 9417 8431

CHULLORA
Suttons Motors (Chullora) P/L
Cnr Hume Hwy/Waterloo Rd
P: (02) 9642 0233 Fax: (02) 9642 7798

DEE WHY
Peninsula Holden
Cnr May & Mooramba Roads
P: (02) 9982 1311 Fax: (02) 9982 3755

EAST SYDNEY
Suttons City Holden
137-157 Bourke Street
P: (02) 9357 4222 Fax: (02) 9358 5542

GORDON
Sundell Holden
Cnr Pacific Hwy/McIntyre St
P: (02) 9498 7766 Fax: (02) 9498 2906

HOMEBUSH
Suttons Motors Homebush P/L
112 Parramatta Road
P: (02) 9746 4500 Fax: (02) 9746 7206

LAKEMBA
Fulton Holden Lakemba
817 Canterbury Road
P: (02) 9740 5555 Fax: (02) 9740 5907

LANSVALE
Lansvale Holden
266~284 Hume Highway
P: (02) 9728 7333 Fax: (02) 9726 1085

LIVERPOOL
McGrath Holden
411~419 Hume Highway
P: (02) 9821 5000 Fax: (02) 9821 1993

NEWPORT
Newport Car Care Centre
340 Barrenjoey Road
P: (02) 9999 1254

PARRAMATTA
Boyded Holden Parramatta
65 Church Street
P: (02) 9204 6666 Fax: (02) 9635 6346

PENNANT HILLS
Barry Smith Holden
343~355 Pennant Hills Road
P: (02) 9481 8222 Fax: (02) 9484 7475

PENRITH
Penrith City Holden
Cnr Henry St & Macquarie Pl
P: (02) 4732 1966 Fax: (02) 4721 5896

ROCKDALE
Fulton Holden Rockdale
571 Princes Hwy
P: (02) 9567 0321 Fax: (02) 9597 7395

ROSEBERY
Suttons City Holden
Link Road
P: (02) 9931 3000 Fax: (02) 9931 3001

RYDE
Hunter Holden
603~605 Victoria Road
P: (02) 9808 9123 Fax: (02) 9809 6592

SPRINGWOOD
Springwood Holden
15 Ferguson Road
P: (02) 4751 1911 Fax: (02) 4751 2481

HOLDEN DEALERS CONT.

ST LEONARDS
Hunter Holden
4 Herbert Street
P: (02) 9906 4044 Fax: (02) 9439 4635

ST. MARY'S
John Young Holden
Cnr Glossop & Harris Streets
P: (02) 9673 2111 Fax: (02) 9673 4932

SUTHERLAND
Greg Ball Holden
499~505 Princes Highway
P: (02) 9545 4811 Fax: (02) 9545 2533

WAITARA
Suttons Motors Waitara P/L
90 Pacific Hwy
P: (02) 9487 2222 Fax: (02) 9489 0009

WINDSOR
Hawkesbury Valley Holden
18 Macquarie Street
P: (02) 4577 4077 Fax: (02) 4577 2592

N.S.W. Country

ARMIDALE
New State Motors
103 Rusden Street
P: (02) 6772 9444 Fax: (02) 6772 5836

BALLINA
Quayside Motors
Pacific Highway
P: (02) 6686 5111 Fax: (02) 6686 8574

BARHAM
Hall's Motors Pty Ltd
44 Noorong Street
P: (03) 5453 2092 Fax: (03) 5453 1064

BATEMAN'S BAY
Surfair Holden
30-32 Orient Street
P: (044) 725 111

BATHURST
Bathurst Holden
54 Durham Street
P: (02) 6331 2077 Fax: (02) 6331 9177

BEGA
Bega Valley Holden
Cnr Upper and Gipps Sts
P: (02) 6492 2333 Fax: (02) 6492 3105

BLAYNEY
Alan May Auto. Services
98 Adelaide Street
P: (063) 682 745 Fax: (063) 683 257

BOMBALA
Delcott Engineering Pty Ltd
Maybe Street
P: (02) 6458 3341 Fax: (02) 6458 3940

BOOROWA
Boowowa Auto Repairs
40 Marsden Street
P: (063) 853 305

BREWARRINA
Lukas Holden
Bathurst Street
P: (02) 6839 2105 Fax: (02) 6839 2454

BROKEN HILL
Donlee Motors Pty Ltd
Cnr Galena & Rakow Streets
P: (08) 8087 2463 Fax: (08) 8087 7971

CANOWINDRA
Canowindra Motors
Gaskill Street
P: (02) 6344 1105 Fax: (02) 6344 1105

CARDIFF
Brian Kelly Holden
35~39 MacQuarie Road
P: (02) 4954 7733 Fax: (02) 4954 9407

CASINO
Casino Holden
142 Barker Street
P: (02) 66)62 2822 Fax: (02) 6662 2101

CESSNOCK
Geoff Boyd Holden
Cnr Wollombi Road and Darwin Street
P: (02) 4990 3800 Fax: (02) 4991 1544

COBAR
Cobar Holden
Cnr Lewis St & Louth Road
P: (02) 6836 4005 Fax: (02) 6836 3409

COFF'S HARBOUR
Geoff King Holden
Cnr Pacific Hwy and Thompson Road
P: (02) 6652 2288 Fax: (02) 6652 5360

COOMA
Summit Holden
66~70 Sharp Street
P: (02) 6452 1077 Fax: (02) 6452 1142

HOLDEN DEALERS cont.

COONABARABRAN
Coonabarabran Holden
24 Charles Street
P: (02) 6842 1499 Fax: (02) 6842 2473

COONAMBLE
Moody's Motors
37 Aberford Street
P: (02) 6822 1161 Fax: (02) 6822 1624

COOTAMUNDRA
Jenkins Garage
111 Wallendoon Street
P: (02) 6942 2522 Fax: (02) 6942 1493

COWRA
Waugoola Motors Pty Ltd
Kendal Street
P: (02) 6342 1800 Fax: (02) 6342 3614

CROOKWELL
Crookwell Autos
114 Goulburn Street
P: (02) 4832 1433 Fax: (02) 4832 2157

DENILIQUIN
Burchfield Bros & Co
112~114 End Street
P: (03) 5881 2133 Fax: (03) 5881 3322

DORRIGO
Phil Noble Motors
46~48 Hickory Street
P: (02) 6657 2017 Fax: (02) 6657 2217

DUBBO
John Kierath
54 Bourke Street
P: (02) 6882 1011 Fax: (02) 6882 7102

DUNGOG
Turner Holden
248 Dowling Street
P: (02) 4992 1816 Fax: (02) 4992 1833

EDEN
Ron Doyle
113 Princes Highway
P: (02) 6496 1420 Fax: (02) 6496 1467

FINLEY
Riverina Garage Finley
104 Murray Street
P: (03) 5883 1211 Fax: (03) 5883 1638

FORBES
Frank Spice Holden
20~22 Dowling Street
P: (02) 6851 1755 Fax: (02) 6852 2825

GATESHEAD
Brian Kelly Holden
9 Oakdale Road
P: (02) 4920 7000 Fax: (02) 4920 7001

GILGANDRA
Gilgandra Holden
3 Morris Street
P: (02) 6847 1888 Fax: (02) 6847 1277

GLEN INNES
Glen Severn Holden
167 Grey Street
P: (02) 6732 2888 Fax: (02) 6732 3394

GOSFORD
Noble Holden
Pacific Highway
P: (02) 4325 0511 Fax: (02) 4324 1043

GOULBURN
Geissler Motors
279~298 Auburn Street
P: (02) 4821 3744 Fax: (02) 4821 9798

GRAFTON
Ken Casson Holden
37~39 Turf Street
P: (02) 6642 6666 Fax: (02) 6642 6737

GRENFELL
Terry Carroll Motors Pty Ltd
40 Alexandra Street
P: (02) 6343 1522 Fax: (02) 6343 1347

GRIFFITH
Leo Franco Holden
164~166 Yambil Street
P: (02) 6964 2977 Fax: (02) 6962 4916

GUNNEDAH
Namoi Valley Motors
48 Barber Street
P: (02) 6742 0211 Fax: (02) 6742 3842

GUNNING
Bailey's Garage
Yass Street
P: (048) 451 224 Fax: (048) 451 486

HARDEN
Ginty & O'Leary
Cnr Station & Albury Streets
P: (02) 6386 2320 Fax: (02) 6386 2722

HAY
Royce Curtis Motors
168 Lachlan Street
P: (02) 6993 1503 Fax: (02) 6993 2212

HOLDEN DEALERS cont.

HOLBROOK
Lieschke Motors Pty Ltd
78 Albury Street
P: (02) 6036 2244 Fax: (02) 6036 2831

INVERELL
Gaukroger Sales Pty Ltd
Vivian Street
P: (02) 6722 2722 Fax: (02) 6722 1804

JERILDERIE
Jerilderie Motors
Jerilderie Street
P: (03) 5886 1302 Fax: (03) 5886 1734

KANDOS
Chrisfield Holden
11 Angus Street
P: (02) 6379 4204 Fax: (02) 6379 4606

KATOOMBA
Katoomba Holden
136 Great Western Highway
P: (02) 4782 2066 Fax: (02) 4782 6221

KEMPSEY
Thoroughgood Holden
118~132 Belgrave Street
P: (02) 6562 1381 Fax: (02) 6562 1383

KIAMA
Glen Fulton Holden
35~41 Collins Street
P: (02) 4232 1888 Fax: (02) 4232 3062

KYOGLE
O & H Holden
128~134 Summerland Way
P: (02) 6632 1711 Fax: (02) 6632 2552

LEETON
John Ryan Holden
47~51 Pine Avenue
P: (02) 6953 2466 Fax: (02) 6953 6725

LISMORE
John Chant Motors Pty Ltd
21~27 Carrington Street
P: (02) 6621 2601 Fax: (02) 6622 4659

LITHGOW
Lithgow City Holden
255 Main Street
P: (02) 6351 4555 Fax: (02) 6351 4653

MACKSVILLE
Eastland Auto Centre
18~22 Cooper Street
P: (02) 6568 1711 Fax: (02) 6568 1816

MACLEAN
O'Halloran Motors
175 River Street
P: (02) 6645 2844 Fax: (02) 6645 4003

MAITLAND
Heritage Holden
Cnr New England Hwy & Bungaree St
P: (02) 4932 0779 Fax: (02) 4932 0473

MOREE
Keith Haddad Holden
Cnr Boston & Heber Streets
P: (02) 6752 1855 Fax: (02) 6752 1298

MORUYA
Surfair Holden
88 Vulcan Street
P: (02) 4474 2555 Fax: (02) 4474 2129

MOSS VALE
Moss Vale Holden
160~162 Argyle Street
P: (02) 4868 1055 Fax: (02) 4868 3330

MULLUMBIMBY
Tony Carsburg Holden
2 Argyle Street
P: (02) 6684 2066 Fax: (02) 6684 2066

MUDGEE
Ross Granata Motors
47~55 Market Street
P: (02) 6372 1766 Fax: (02) 6372 3735

MURWILLUMBAH
Tweed Motors Murwillumbah
29 Prospero Street
P: (02) 6672 4444 Fax: (02) 6672 5811

MUSWELLBROOK
Upper Hunter Motors Pty Ltd
116 Bridge Street
P: (02) 6543 2577 Fax: (02) 6543 2565

NAMBUCCA HEADS
Nambucca Holden
Mann Street
P: (065) 689 477 Fax: (065) 689 477

NARRABRI
Allan Cooper Holden
181 Maitland Street
P: (02) 6792 3488 Fax: (02) 6792 4750

NARROMINE
Terry Green Holden
45~51 Dandaloo Street
P: (02) 6889 1244 Fax: (02) 6889 2277

HOLDEN DEALERS cont.

NEWCASTLE
Newcastle City Holden
King Street (Cnr Stewart Ave)
P: (02) 4961 5301 Fax: (02) 4961 6485

NOWRA
Glendon Motors Holden
301~313 Princes Highway
P: (02) 4421 0144 Fax: (02) 4423 0854

ORANGE
Canobolas Holden
348 Summer Street
P: (02) 6362 0155 Fax: (02) 6361 3702

PARKES
Broderick Motors Holden
Cnr Mitchell & Clarinda Sts
P: (02) 6862 2266 Fax: (02) 6862 1406

PEAK HILL
S. Leary & Sons Pty Ltd
Mingelo Street
P: (02) 6869 1459 Fax: (02) 6869 1999

PORT MACQUARIE
Bob Todd Motors Pty Ltd
115 Gordon Street
P: (02) 6583 1100 Fax: (02) 6584 9508

QUIRINDI
Browning Motors
82 Henry Street
P: (02) 6746 1666 Fax: (02) 6746 1422

SCONE
Upper Hunter Motors (Scone)
100 Liverpool Street
P: (065) 451 355

SINGLETON
Lancaster Holden
80 John Street
P: (02) 6578 8700 Fax: (02) 6578 8733

TAMWORTH
Kensell's Holden
Cnr Bourke St & Kable Ave
P: (02) 6766 6699 Fax: (02) 6766 7339

TAREE
Hardes Holden
21~25 Victoria Street
P: (02) 6552 2222 Fax: (02) 6552 1269

TEMORA
Rod Lovering Holden
607-608 Stockinbingal Road
P: (02) 6977 2255 Fax: (02) 6977 2033

TENTERFIELD
Sexton & Green (Sales & Service) P/L
148 Rouse Street
P: (02) 6736 1855 Fax: (02) 6736 1946

TUNCURRY
Great Lakes Holden
144 Manning Street
P: (065) 556 644

TWEED HEADS
Tweed Motors Pty Ltd
75~79 Pacific Highway
P: (075) 363 411 Fax: (075) 364 490

ULLADULLA
Alan May Holden
169 Princes Highway
P: (02) 4455 1166 Fax: (02) 4455 4122

WAGGA WAGGA
Wagga Motors Pty Ltd
32 Dobney Avenue
P: (02) 6925 3411 Fax: (02) 6925 3283

WALCHA
Bowden's Garage Pty Ltd
Derby Street
P: (02) 6777 2226 Fax: (02) 6777 2319

WALGETT
Walgett Garage Pty Ltd
81 Wee Waa Street
P: (02) 6828 1088 Fax: (02) 6828 1198

WALLA WALLA
D.E. Lieschke & Son Pty Ltd
63 Commercial Road
P: (02) 6029 2202 Fax: (02) 6029 2134

WARIALDA
Roger Moore
Hope Street
P: (02) 6729 1570 Fax: (02) 6729 1104

WARILLA
Wilson's Holden
29 Shellharbour Road
P: (02) 4295 1223 Fax: (02) 4296 1007

WARREN
Fuller Bros
Dubbo Street
P: (02) 6847 4978 Fax: (02) 6847 4477

WEE WAA
Allan Cooper Holden
Rose Street
P: (067) 954 255

HOLDEN DEALERS cont.

WELLINGTON
Gersbach's Garage Pty Ltd
92 Lee Street
P: (02) 6845 2733 Fax: (02) 6845 3236

WEST WYALONG
West Wyalong Motors
183 Main Street
P: (02) 6972 2388 Fax: (02) 6972 2570

WOLLONGONG
Dwyers City Holden
31~33 Crown Street
P: (02) 4229 9222 Fax: (02) 4229 5105

WYONG
Barry Robertson Holden
172 Pacific Highway
P: (02) 4351 2588 Fax: (02) 4352 1759

YASS
Bill Nesbitt Holden
221 Comur Street
P: (02) 6226 1866 Fax: (02) 6226 1747

YOUNG
Harden & Geelan Holden
48 Boorowa Street
P: (02) 6382 1155 Fax: (02) 6382 4673

A.C.T.

BELCONNEN
Gerald Slaven Holden
Josephson Street
P: (02) 6251 5111 Fax: (02) 6253 1298

BRADDON
Rolfe Holden
44 Mort Street
P: (02) 6248 7888 Fax: (02) 6257 1328

PHILLIP
Commonwealth Motors Pty Ltd
158 Melrose Drive
P: (02) 6282 3522 Fax: (02) 6282 5214

Tas.

BURNIE
Motors Burnie
Marine Terrace
P: (03) 6431 1122 Fax: (03) 6431 3146

DEVONPORT
Motors Devonport
Victoria Parade
P: (03) 6424 4033 Fax: (03) 6424 5249

HOBART
Motors Pty Ltd
179 MacQuarie Street
P: (03) 6220 1171 Fax: (03) 6223 8117

KING ISLAND
King Island Motors Pty Ltd
Netherby Road, Currie
P: (03) 6462 1155 Fax: (03) 6462 1488

LAUNCESTON
Motors Launceston
93~95 Elizabeth Street
P: (03) 6332 9101 Fax: (03) 6334 5245

SMITHTON
Motors Smithton
Cnr Nelson & Gibson Street
P: (03) 6452 1241 Fax: (03) 6452 3123

ULVERSTONE
Motors Ulverston
97~101 Reibey Street
P: (03) 6425 2277 Fax: (03) 6425 2610

Vic. Metropolitan

BERWICK
Barry Bourke Holden
755 Princes Highway
P: (03) 9707 2222 Fax: (03) 9707 3091

BUNDOORA
Watson Holden
413 Grimshaw Street
P: (03) 9467 4677 Fax: (03) 9467 7661

BURWOOD
Penfold Holden
142 Burwood Highway
P: (03) 9268 1333 Fax: (03) 9268 1335

CHELSEA
Harrison Holden
370 Nepean Highway
P: (03) 9772 2233 Fax: (03) 9772 2190

CHELTENHAM
Booran Holden
1212 Nepean Highway
P: (03) 9584 3333 Fax: (03) 9584 4285

DANDENONG
Booran Holden
17 Lonsdale Street
P: (03) 9794 5455 Fax: (03) 9793 7001

DONCASTER
Doncaster Holden
636~640 Doncaster Road
P: (03) 9840 0188 Fax: (03) 9840 2587

HOLDEN DEALERS cont.

ELSTERNWICK
Reg Hunt Holden
63 Nepean Highway
P: (03) 9528 2222 Fax: (03) 9528 1088

ESSENDON
Preston Motors (Essendon) P/L
205~211 Keilor Road
P: (03) 9374 2888 Fax: (03) 9379 6754

FAWKNER
Mantello Holden
1263 Sydney Road
P: (03) 9359 1333 Fax: (03) 9359 9334

FERNTREE GULLY
Ferntree Gully Holden
980 Burwood Highway
P: (03) 9758 2222 Fax: (03) 9758 3435

FOOTSCRAY
Alan Mance Holden
435 Barkly Street
P: (03) 9687 4222 Fax: (03) 9687 7529

FRANKSTON
Bay City Holden
140 Dandenong Road
P: (03) 9784 4444 Fax: (03) 9784 4419

GEELONG
R & B Smith Holden
510 Moorabool Street
P: (03) 5222 2888 Fax: (03) 5221 3114

GEELONG
Winter & Taylor (Sales) P/L
23 Cavendish Street
P: (03) 5222 1811 Fax: (03) 5221 1873

GLENHUNTLY
Booran Holden
1234 Glenhuntly Road
P: (03) 9571 9313 Fax: (03) 9571 8374

GLEN WAVERLEY
Geoff Brady Holden
565~577 Springvale Road
P: (03) 9550 5888 Fax: (03) 9550 5855

HASTINGS
Westernport Holden
2147 Frankston/Flinders Road
P: (059) 791 503 Fax: (059) 793 845

LILYDALE
Heritage Holden
344 Main Street
P: (03) 9735 5566 Fax: (03) 9735 1040

MELTON
Alan Mance Holden
1 Holland Drive
(03) 9746 9666 Fax: (03) 9746 9555

MORNINGTON
John Collins Holden
976 Nepean Highway
P: (03) 5975 4433 Fax: (03) 5975 4720

OAKLEIGH
Garry & Warren Smith
1575 Dandenong Road
P: (03) 9568 6333 Fax: (03) 9568 5691

PRESTON
Ralph D'Silva Holden
573~603 High Street
P: (03) 9471 0500 Fax: (03) 9478 4210

RINGWOOD
Patterson Cheney Holden
45~57 Maroondah Highway
P: (03) 9262 6666 Fax: (03) 9870 1113

SOUTH MELBOURNE
South City Holden
380 City Road
P: (03) 9627 3333 Fax: (03) 9686 5836

SOUTH YARRA
Penfold Holden
681 Chapel Street
P: (03) 9827 2272 Fax: (03) 9826 5328

SUNBURY
Sunbury Holden
93~95 Horne Street
P: (03) 9740 3000 Fax: (03) 9740 4777

SUNSHINE
Kevin Dennis Holden
272 Ballarat Road
P: (03) 9292 9292 Fax: (03) 9292 9200

WERRIBEE
Ballan Holden
56 Princes Highway
P: (03) 9741 2222 Fax: (03) 9742 3797

WEST MELBOURNE
Reg Hunt Holden
577 King Street
P: (03) 9329 6611 Fax: (03) 9329 1550

Vic. Country

ALEXANDRA
GK & JH Radford
79 Greints Street
P: (03) 5722 1588 Fax: (03) 5722 1978

HOLDEN DEALERS cont.

ARARAT
David Reid Motors
High Street
P: (03) 5352 4100 Fax: (03) 5352 4388

BAIRNSDALE
The Big Garage
199 Main Street
P: (03) 5152 4131 Fax: (03) 5152 5313

BALLARAT
Peter Amor Motors
211 Gillies Street
P: (03) 5339 9333 Fax: (03) 5339 9202

BENALLA
Arnott's Motors
88~90 Bridge Street
P: (03) 5762 2500 Fax: (03) 5762 1586

BENDIGO
Ron Poyser Holden
Cnr High & Myrtle Streets
P: (03) 5442 3999 Fax: (03) 5442 7766

BIRCHIP
R.L. & C.J. Bales
38 Cumming Avenue
P: (03) 5492 2543

BOORT
Jaron Motors
55 Godfrey Street
P: (034) 552 008 Fax: (034) 552 008

CAMPERDOWN
Camperdown Auto Parts
96 Manifold Street
P: (03) 5593 1983 Fax: (03) 5593 1979

CASTERTON
Coxons Holden
139 Henty Street
P: (03) 5581 1166 Fax: (03) 5581 2116

CHARLTON
K.V. Charlton
70 High Street
P: (03) 5491 1444 Fax: (03) 5491 1984

COBRAM
Neville Mustica Motors
Murray Valley Hwy
P: (03) 5872 1666 Fax: (03) 5872 1920

COHUNA
Hare Motors Holden
105~107 King George Street
P: (03) 5456 4488 Fax: (03) 5456 4448

COLAC
Parker Bros. Motor Co
224 Murray Street
P: (03) 5231 5533 Fax: (03) 5231 3853

DAYLESFORD
K.R. Little
Vincent Street
P: (03) 5348 2248

DIMBOOLA
Westerfield Motors Pty Ltd
64 Lloyd Street
P: (03) 5389 1302

DONALD
O.A. Shilton & Sons Pty Ltd
5 Woods Street
P: (03) 5497 1400 Fax: (03) 5497 1505

ECHUCA
Echuca Motors
1 Nothern Highway
P: (03) 5482 1522 Fax: (03) 5480 6215

FOSTER
Ray Dower Motors
78 Main Street
P: (03) 5682 2404

HAMILTON
Peter Sandow Motors Pty Ltd
210 Gray Street
P: (03) 5572 1433 Fax: (03) 5571 1182

HOPETOUN
Hopetoun Motors
78 Lascelles Street
P: (03) 5083 3143 Fax: (03) 5083 3290

HORSHAM
Ivan Morrow Motors Pty Ltd
22 O'Callaghans Street
P: (03) 5382 0185 Fax: (03) 5382 0459

KANIVA
Kaniva Motors
82 Commercial Street
P: (03) 5392 2300 Fax: (03) 5392 2589

KOOWEERUP
G & J Light Mechanical repairs P/L
Station Road
P: (03) 5997 1325

KORUMBURRA
Peter Dunlevie Holden
42 Commercial Street
P: (03) 5655 1288 Fax: (03) 5655 1839

HOLDEN DEALERS cont.

KYABRAM
D'Alberto Holden
60 McEwen Road
P: (03) 5852 1366 Fax: (03) 5852 1337

KYNETON
Mollison Motors Pty Ltd
167 Mollison Street
P: (03) 5422 3377 Fax: (03) 5422 3501

LEONGATHA
Gleeson Holden
37~43 Bair Street
P: (03) 5662 2361 Fax: (03) 5662 3393

MANSFIELD
Martin's Garage
52~54 Chenery Street
P: (03) 5775 2610 Fax: (03) 5775 1179

MARYBOROUGH
Graham Jacka Holden
35 Nolan Street
P: (03) 5461 1011 Fax: (03) 5461 4789

MILDURA
Stuart & Harrison (Sales) Pty Ltd
24~32 Deakin Avenue
P: (03) 5023 0051 Fax: (03) 5021 3076

MORTLAKE
W. Christian (Mortlake) Pty Ltd
107 Dunlop Street
P: (03) 5599 2301 Fax: (03) 5599 2567

MURRAYVILLE
Peers Motors
McKenzie Street
P: (03) 5095 2081 Fax: (03) 5095 2054

NATHALIA
BHB Motors
6 Blake Street
P: (03) 5866 2660

NHILL
Ivan Morrow Motors Pty Ltd
71~73 Nelson Street
P: (03) 5391 1333 Fax: (03) 5391 1228

NULLAWIL
Nullawil Motors & General Engineers
Calder Highway
P: (03) 5493 5210 Fax: (03) 5493 5210

ORBOST
Merlin Motors
Stanley Street
P: (03) 5154 1909

PORTLAND
Reynolds Holden
Henty Highway
P: (03) 5523 1688 Fax: (03) 5523 6299

QUAMBATOOK
Quambatook Auto Services
32 Gutherie Street
P: (03) 5457 1237 Fax: (03) 5457 1420

ROCHESTER
Bruce Hocking Motors Pty Ltd
71 Moore Street
P: (03) 5484 1455 Fax: (03) 5484 1140

ROBINVALE
Stuart & Harrison (Sales) Pty Ltd
cnr Herbert & George Sts
P: (03) 5026 3305

RUTHERGLEN
Jasper Bros Pty Ltd
62 Main Street
P: (02) 6032 8404 Fax: (02) 6032 8156

SALE
Keith Boyd Holden
273 York Street
P: (03) 5144 3944 Fax: (03) 5144 6289

SEALAKE
Paddy Smith Holden
Calder Highway
P: (03) 5070 1147

SEYMOUR
Neil Beer Holden
49 Emily Street
P: (03) 5792 2777 Fax: (03) 5792 4111

SHEPPARTON
Parker Bros. Auto Co.
Benalla Road
P: (03) 5821 9811 Fax: (03) 5831 1021

STAWELL
Howden Holden
72~76 Longfield Street
P: (03) 5358 1888 Fax: (03) 5358 3954

SWAN HILL
Swan Hill Holden
94~102 Campbell Street
P: (03) 5033 1800 Fax: (03) 5032 2468

TALLANGATTA
Crispin Motors
21 Towong Street
P: (02) 6071 2414 Fax: (02) 6071 2655

HOLDEN DEALERS cont.

TIMBOON
Timboon Motors
56 Bailey Street
P: (03) 5598 3007 Fax: (03) 5598 3362

TRARALGON
Colin Watson Holden
Princes Highway
P: (03) 5174 8000 Fax: (03) 5175 0050

UNDERBOOL
A.J. Gloster & Sons
Cotter Street
P: (03) 5094 6291 Fax: (03) 5094 6297

WANGARATTA
Alan Capp (New Cars) Pty Ltd
29 Tone Road
P: (03) 5721 2133 Fax: (03) 5721 4626

WARRACKNABEAL
Amor Motors Aubrey Truck Sales
33 Woolcock Street
P: (03) 5394 1055 Fax: (03) 5398 1904

WARRAGUL
Vin Rowe Holden
3 Endeavour Street
P: (03) 5623 1362 Fax: (03) 5623 4314

WARRNAMBOOL
Callaghan Motors Pty Ltd
133~137 Fairy Street
P: (03) 5562 3711 Fax: (03) 5562 7415

WODONGA
McRae White Motors
182 Melbourne Road
P: (02) 6056 2333 Fax: (02) 6024 7899

WONTHAGGI
J.P. Holden
2 Murray Street
P: (03) 5672 1122 Fax: (03) 5672 4141

YARRAM
John Palmer Holden
150 Commercial Road
P: (03) 5182 5122 Fax: (03) 5182 6166

YARRAWONGA
Pigdons Pty Ltd
155 Belmore Street
P: (03) 5743 1577 Fax: (03) 5744 1788

Qld. Metropolitan

ALBION
Bill Harrison Car Sales
Frodsham Street & Crosby Road
P: (07) 3262 2455 Fax: (07) 3262 5728

ASPLEY
Zupps Aspley Pty Ltd
1454 Gympie Road
P: (07) 3246 8000 Fax: (07) 3263 7036

CAPALABA
Oldfield Holden
103 Redland Bay Road
P: (07) 3245 2200 Fax: (07) 3245 2221

INDOOROOPILLY
Westpoint Holden
440 Moggill Road
P: (07) 3378 6622 Fax: (07) 3878 1340

IPSWICH
Ross Llewellyn Holden
246 Brisbane Road
P: (07) 3282 2922 Fax: (07) 3282 6359

LAIDLEY
Buhse's Garage
5 Spicer Street
P: (07) 5465 1406 Fax: (07) 5465 1706

MOOROOKA
John Sivyer Holden
1060 Ipswich Road
P: (07) 3892 3344 Fax: (07) 3848 7816

MT. GRAVATT
Zupps Motors Pty Ltd
1310 Logan Road
P: (07) 3877 0000 Fax: (07) 3877 0066

NEWSTEAD
Eagers Retail Pty Ltd
95 Breakfast Creek Road
P: (07) 3364 1199 Fax: (07) 3364 1099

PETRIE
Petrie Holden
1059 Gympie Road
P: (07) 3285 2244 Fax: (07) 3285 1975

REDCLIFFE
Village Holden
425 Elizabeth Avenue
P: (07) 3284 7344 Fax: (07) 3883 2711

SPRINGWOOD
Motorama Holden
3455 Pacific Highway
P: (07) 3804 4888 Fax: (07) 3208 7018

WINDSOR
Leach Holden
143 Newmarket Road
P: (07) 3357 6711 Fax: (07) 3357 5403

HOLDEN DEALERS cont.

WOOLLOONGABBA
Armstrong Holden
73 Ipswich Road
P: (07) 3891 5522 Fax: (07) 3891 5146

WYNNUM
Doug Barton Holden
200 Tingal Road
P: (07) 3396 7777 Fax: (07) 3393 3593

Qld. Country

ATHERTON
Redding Motors Pty Ltd
2 Cook Street
P: (07) 4091 1344 Fax: (07) 4091 2039

AYR
Honeycombes Sales & Service
213~217 Queen Street
P: (07) 4783 2344 Fax: (07) 4783 2079

BEAUDESERT
Lawson Holden
57 Brisbane Street
P: (07) 5541 2000 Fax: (07) 5541 3368

BOWEN
McDermott Holden
98 Herbert Street
P: (07) 4786 1430 Fax: (07) 4786 2903

BUNDABERG
Ross Gray Holden
Takalvan Street
P: (07) 4150 1333 Fax: (07) 4150 1318

CABOOLTURE
Beecham Holden
Bribie Island Road
P: (07) 5495 1477 Fax: (07) 5495 2839

CAIRNS
Ireland Holden
227~233 Mulgrave Road
P: (07) 4052 3666 Fax: (07) 4052 3606

CALOUNDRA
Caloundra City Holden
45 Caloundra Road
P: (07) 5491 5522 Fax: (07) 5491 8016

CHARLEVILLE
Alan Dobbin Holden
129 Alfred Street
P: (07) 4654 1737 Fax: (07) 4654 3254

CHARTERS TOWERS
Peters Holden
57 Mosman Street
P: (07) 4787 1177 Fax: (07) 4787 4858

CHINCHILLA
Ainsworth Motors & Machinery Pty Ltd
55 Chinchilla Street
P: (07) 4662 7286 Fax: (07) 4662 7197

CROWS NEST
Dennis Nissen Motors
14 William Street
P: (07) 4698 1300 Fax: (07) 4698 1495

DALBY
Johnson's Holden
36 Drayton Street
P: (07) 4662 2422 Fax: (07) 4662 4311

EMERALD
Orion Holden
Hospital Road
P: (07) 4980 7622 Fax: (07) 4982 2791

GATTON
Gatton Auto Centre
67 Railway Street
P: (07) 5462 1633 Fax: (07) 5462 1980

GLADSTONE
Andersons Auto City
56 Yarroon Street
P: (07) 4972 1177 Fax: (07) 4972 9141

GYMPIE
Madills
35 Mellor Street
P: (07) 5482 2522 Fax: (07) 5482 2672

HERVEY BAY
Whitaker Motor World
96 Torqyay Road
P: (07) 1281 722

INGHAM
Devietti Holden
99 Lannercost Street
P: (07) 4776 1599 Fax: (07) 4776 3547

INNISFAIL
I.C. Taylor Pty Ltd
117 Edith Street
P: (07) 4061 1577 Fax: (07) 4061 3963

JULIA CREEK
Julia Creek Motors Pty Ltd
Burke Street
P: (07) 4746 7155 Fax: (07) 4746 7197

KILCOY
Hobart's Garage
58 Mary Street
P: (07) 5497 1204 Fax: (07) 5497 1204

HOLDEN DEALERS cont.

KINGAROY
John Dundas Pty Ltd
38 King Street
P: (07) 4162 1722 Fax: (07) 4162 3756

LONGREACH
Longreach Motors
33 Swan Street
P: (07) 4658 1700 Fax: (07) 4658 1857

MACKAY
Pioneer Holden
Cnr Gordon & Wellington Streets
P: (07) 4957 2771 Fax: (07) 4951 3591

MAROOCHYDORE
Sunco Holden
Wises Road
P: (07) 5443 7644 Fax: (07) 5443 7645

MARYBOROUGH
Whitaker Holden
109~111 March Street
P: (07) 4122 2255 Fax: (07) 4123 1912

MOUNT ISA
Barkly Motors Pty Ltd
Marian Street
P: (07) 4743 3044 Fax: (07) 4743 8466

MURGON
Clifton Motors
Macalister Street
P: (07) 4168 1066 Fax: (07) 4168 1947

NAMBOUR
Kallenbach Motors
139 Howard Street
P: (07) 5441 3099 Fax: (07) 5441 3105

NANANGO
Nanango Motors Pty Ltd
102 Drayton Street
P: (07) 4163 1108 Fax: (07) 4163 1108

NOOSAVILLE
Madill's Holden
Lionel Donovan Drive
P: (07) 5449 7900 Fax: (07) 5474 3838

PROSERPINE
Crossley Car Sales Whitsunday Pty Ltd
162~164 Main Street
P: (07) 4945 1822 Fax: (07) 4945 2022

ROBINA
Smith's Robina Holden
16 Brabham Circuit
P: (07) 5575 0500 Fax: (07) 5562 1072

ROCKHAMPTON
Lawrence's
327 Richardson Road
P: (07) 4930 5111 Fax: (07) 4930 5112

ROMA
Maranoa Multi Agencies
Bowen Street
P: (07) 4622 2900 Fax: (07) 4622 1832

SOUTHPORT
Lockhart Holden
Cnr Nerang Road & Olsen Avenue
P: (07) 5597 2900 Fax: (07) 5597 2542

SPRINGSURE
Springsure Motors
Eclipse Street
P: (07) 4984 1177 Fax: (07) 4984 1361

ST. GEORGE
Halpin Motors
39~41 Grey Street
P: (07) 4625 5466 Fax: (07) 4625 5855

STANTHORPE
Central Motors
42 Maryland Street
P: (07) 4681 2200 Fax: (07) 4681 1479

TOOWOOMBA
Toowoomba Holden
Cnr James & Hume Streets
P: (07) 4690 0900 Fax: (07) 4690 0909

TOWNSVILLE
Tony Ireland Holden
87~91 Charters Towers Road
P: (07) 4726 7777 Fax: (07) 4721 1486

TULLY
Island Coast Holden
12 Richardson Street
P: (07) 4068 1288 Fax: (07) 4068 2145

WARWICK
Deighton Motors Pty Ltd
Grafton Street
P: (07) 4661 2266 Fax: (07) 4661 1275

N.T.

ALICE SPRINGS
Kittles Holden
Cnr Wills & Railway Terrace
P: (08) 8952 1155 Fax: (08) 8953 1556

DARWIN
Kerry Holden
21~25 Stuart Highway
P: (08) 8980 8080 Fax: (08) 8980 8081

HOLDEN DEALERS cont.

KATHERINE
Kittles Holden
441 Victoria Highway
P: (08) 8972 1788 Fax: (08) 8971 0209

TENNANT CREEK
Kittles Holden
Paterson Street
P: (08) 8962 2251 Fax: (08) 8962 2527

S.A. Metropolitan

ADELAIDE
City Holden
223 Grenfell Street
P: (08) 8223 7666 Fax: (08) 232 0718

ELIZABETH
Peter Page Holden
Elizabeth Way
P: (08) 8255 1288 Fax: (08) 8255 9260

MALVERN
Claridge Holden
361~367 Unley Road
P: (08) 8272 1600 Fax: (08) 8373 0057

PORT ADELAIDE
Smiths of Port Adelaide
271 Commercial Road
P: (08) 8447 3855 Fax: (08) 84473 978

REYNELLA
Southgate Holden
49~59 Main South Road
P: (08) 8381 9555 Fax: (08) 8381 6274

SOMERTON PARK
Hamilton Holden
278~288 Brighton Road
P: (08) 8296 4866 Fax: (08) 8296 7112

THEBARTON
Metro Holden
1 Port Road
P: (08) 8354 9555 Fax: (08) 8443 6855

VALLEY VIEW
Plaza Holden
817~839 North East Road
P: (08) 8263 4922 Fax: (08) 8265 5200

S.A. Country

BALAKLAVA
Balaklava Motors
4 Wallace Street
P: (08) 8862 1030 Fax: (08) 8862 2000

BERRI
Rosenthal Bros Pty Ltd
Vaughan Terrace
P: (08) 8582 3644 Fax: (08) 8582 3515

BORDERTOWN
Farmer's Centre
South Terrace
P: (087) 520 266

CEDUNA
Beck Motors Pty Ltd
Poynton Street
P: (08) 8625 2616 Fax: (08) 8625 3201

CLARE
Mid North Motor Company
7 Old North Road
P: (08) 8842 2200 Fax: (08) 8842 2886

CLEVE
Herbert Motors Pty Ltd
Rudall Road
P: (08) 8628 2150 Fax: (08) 8628 2537

CUMMINS
Trigg & Wedd
3 Umlauf Street
P: (086) 762 105 Fax: (086) 762 303

CRYSTAL BROOK
Crouch Rural Pty. Ltd
26 Brandis Street
P: (08) 8636 2257 Fax: (08) 8636 2088

GAWLER
Steinborner Holden
Cnr Murray & Bridge Sts
P: (08) 8522 4222 Fax: (08) 85) 8522 4898

KADINA
J.H. Rosewarne Pty Ltd
Graves Street
P: (08) 8821 1111 Fax: (08) 8821 1686

KEITH
Farmers Centre
McBain Street
P: (08) 8755 3222 Fax: (08) 8755 3211

KINGSCOTE
Roberts Motors
Telegraph Road
P: (084) 822 021 Fax: (084) 822 853

KIMBA
R.J. Flavel Mechanical Repairs
30 High Street
P: (086) 272 555 Fax: (086) 272 044

HOLDEN DEALERS cont.

KINGSTON
Lecornu's Service Garage
Agnes Street
P: (08) 8767 2424 Fax: (08) 8767 2533

LOXTON
Flight Motors Pty Ltd
Bookpurnong Terrace
P: (08) 8584 7277 Fax: (08) 8584 5937

MINLATON
Southway
9 Fifth Street
P: (08) 8853 2322 Fax: (08) 8853 2451

MAITLAND
Maitland Motors Pty Ltd
58 Robert Street
P: (08) 8832 2601 Fax: (08) 8832 2673

MENINGIE
Peter Hood Holden
Cnr Princes Highway & Coonalpyn Road
P: (08) 8575 1109 Fax: (08) 8575 1537

MILLICENT
O G R Millicent
98 George Street
P: (08) 8733 3488 Fax (08) 8733 3112

MT. BARKER
Gilbert Motors
57 Adelaide Road
P: (08) 8391 1500 Fax: (08) 8398 2124

MT. GAMBIER
O.G. Roberts & Co
Jubilee Highway West
P: (08) 8725 6788 Fax: (08) 8723 0636

MURRAY BRIDGE
Dutton Motors Pty Ltd
7 Adelaide Road
P: (08) 8532 1999 Fax: (08) 8531 0599

NARACOORTE
Kingcraig Motors Pty Ltd
158~164 Smith Street
P: (08) 8762 1555 Fax: (08) 8762 1806

PORT AUGUSTA
Hayes Augusta Motor Company
38 Stirling Road
P: (08) 8641 0488 Fax: (08) 8642 4300

PORT LINCOLN
City Motors
King Street
P: (08) 8682 1100 Fax: (08) 8682 4734

PORT PIRIE
Spencer Holden
50 Ellen Street
P: (08) 8632 3888 Fax: (08) 8632 6405

RENMARK
Rosenthal Motors Pty Ltd
Ral Ral Avenue
P: (08) 8586 6626 Fax: (08) 8586 4040

ROXBY DOWNS
Augusta Motor Co.
10 Gosse Street
P: (086) 710 100 Fax: (086) 710 950

STRATHALBYN
Gilbert Holden Strathalbyn
High Street
P: (08) 8536 2066 Fax: (08) 8536 2672

TANUNDA
Hage & Co Pty Ltd
50 Murray Street
P: (08) 8563 2123 Fax: (08) 8563 3488

VICTOR HARBOR
Southern Motors Holden
5 Victoria Street
P: (08) 8552 1255 Fax: (08) 8555 2788

WAIKERIE
Riverside Holden
6 Crush Terrace
P: (08) 8541 2900 Fax: (08) 8541 3325

WHYALLA
Whyalla Motor Company
64 Essington Lewis Avenue
P: (08) 8645 7388 Fax: (08) 8645 5512

YANKALILLA
Martin Motors Pty Ltd
Main Street
P: (08) 8558 2052 Fax: (08) 8558 2911

YORKETOWN
Southway Holden
7 Minalaton Road
P: (08) 8852 1322 Fax: (08) 8852 1271

W.A. Metropolitan

CANNINGTON
Brian Gardner Holden
1308~1324 Albany Hwy
P: (08) 9451 2333 Fax: (08) 9458 9144

FREMANTLE
Shacks Holden
64 Queen Victoria Street
P: (08) 9432 9432 Fax: (08) 9432 9456

HOLDEN DEALERS cont.

GOSNELLS
Lance Gibbons Holden
2325 Albany Highway
P: (08) 9398 2211 Fax: (08) 9398 5683

MANDURAH
Mandurah Holden
283 Pinjarra Rd
P: (08) 9535 8777 Fax: (08) 9535 8822

MELVILLE
Melville Motors Pty Ltd
532~540 Canning Highway
P: (08) 9333 5333 Fax: (08) 9333 5300

MIDLAND
Goldy Holden
161 Great Eastern Highway
P: (08) 9274 3411 Fax: (08) 9274 6042

MORLEY
Metro Motors Holden
212 Walter Road West
P: (08) 9449 3522 Fax: (08) 9449 3596

NAVAL BASE
Shacks Cockburn
15 Rockingham Road
P: (08) 9410 1433 Fax: (08) 9410 2331

OSBORNE PARK
North City Holden
Cnr Scarborough Beach Rd & Harborne St
P: (08) 9273 2222 Fax: (08) 9273 2220

PERTH
City Motors
505 Newcastle Street
P: (08) 9422 7777 Fax: (08) 9422 7630

VICTORIA PARK
Youngs Holden
529 Albany Highway
P: (08) 9449 9449 Fax: (08) 9449 9494

WANNEROO
Phoenix Holden
5 Berriman Drive
P: (08) 9409 9200 Fax: (08) 9309 2140

W.A. Country

ALBANY
Mark Loveridge Holden
92~98 Earl Street
P: (08) 9841 2355 Fax: (08) 9841 8623

BRIDGETOWN
Kordics Bridgetown
Hampton Street
P: (08) 9761 1377 Fax: (08) 9761 2151

BROOKTON
Coote Motors
Robinson Road
P: (08) 9642 1108 Fax: (08) 9642 1003

BROOME
Norwest Holden
McPherson Street
P: (08) 9192 1277 Fax: (08) 9192 2230

BUNBURY
Bunbury Holden
3 Sandridge Road
P: (08) 9791 3899 Fax: (08) 9791 2990

BUSSELTON
Fennessy's
4~8 Bussel Hwy
P: (08) 9752 1577 Fax: (08) 9752 4080

CARNAMAH
T & H Walton Stores Pty Ltd
Robertson Street
P: (08) 9951 1130 Fax: (08) 9951 1082

CARNARVON
North West Autos
175 Robinson Street
P: (08) 9941 1159 Fax: (08) 9941 1363

COLLIE
Station Motors
102 Throssell Street
P: (08) 9734 1855 Fax: (08) 9734 1913

CORRIGIN
Farmpower
Kunjin Street
P:(08) 9063 2303 Fax: (08) 9063 2445

CRANBROOK
Cranbrook Motors
11~13 Gathorne Street
P: (08) 9826 1014 Fax: (08) 9826 1097

DALWALLINU
Reid & Inglis
Johnson Street
P: (08) 9661 1120 Fax: (08) 9661 1243

DERBY
BP Colac
Loch Street
P: (08) 9191 1429

ESPERANCE
Dempster Holden
Norseman Road
P: (08) 9071 1155 Fax: (08) 9071 3799

HOLDEN DEALERS cont.

GERALDTON
Young Motors
Cathedral Avenue
P: (08) 9921 1088 Fax: (08) 9964 1157

GNOWANGERUP
G.S. Hendry & Co Pty Ltd
Yougenup Street
P: (08) 9827 1030 Fax: (08) 9827 1460

HARVEY
Stockman Holden
111 Uduc Road
P: (08) 9729 3333 Fax: (08) 9729 3221

KALGOORLIE
Golden City Holden
114 Boulder Road
P: (08) 9021 1699 Fax: (08) 9021 5737

KARRATHA
Moxham Motors
Lot 4551 Balmoral Road
P: (08) 9144 1225 Fax: (08) 9144 1258

KATANNING
Edwards Holden
159 Clive Street
P: (08) 9821 2388 Fax: (08) 9821 2429

KELLERBERRIN
Dowding Motors
1 Mitchell Street
P: (08) 9045 4141 Fax: (08) 9045 4466

KOJONUP
Harris' Garage
Albany Highway
P: (08) 9831 1122 Fax (08) 9831 1043

KULIN
Farmpower
High Street
P: (08) 9880 1266 Fax: (08) 9808 1281

KUNUNURRA
Elgee Holden
231 Bloodwood Drive
P: (08) 9168 2236 Fax: (08) 9169 1124

MANJIMUP
Manjimup Automotive Services
Pritchard Street
P: (08) 9771 1388 Fax: (08) 9777 1214

MERREDIN
Carson's of Merredin
112 Barrack Street
P: (08) 9041 1444 Fax: (08) 9041 1765

MOORA
Frank Lewis Holden
Gardiner Street
P: (08) 9651 1408 Fax: (08) 9651 1724

NAREMBEEN
Aquip Holden
20 Churchill Avenue
P: (08) 9064 7214 Fax: (08) 9064 7065

NARROGIN
Marley White & Co
Federal Street
P: (08) 9881 4777 Fax: (08) 9881 4707

NEWMAN
Cockburn Corefleet
Newman Drive
P: (08) 9175 1421

NORTHAM
Withnell Motors
58 Fitzgerald Street
P: (08) 9622 1188 Fax: (08) 9622 3664

PORT HEDLAND
15 Anderson Street
Moxham Motors
P:(08) 9173 3660 Fax: (08) 9144 1258

QUAIRADING
Farmpower
York Road
P: (08) 9645 1103 Fax: (08) 9645 1310

TOM PRICE
Farnor Motors Pty. Ltd.
43 Booneroo Road
P: (08) 9189 1400

WAGIN
Marley White & Co
63 Tudor Street
P: (08) 9861 1055 Fax: (08) 9861 1657

WEDGEFIELD
N & L Mechnical
Lot 3780 Carlinde Street
P: (08) 9172 2623 Fax: (08) 9172 2896

WONGAN HILLS
Agro Machinery Pty Ltd
10 Wongan Road
P: (08) 9671 1311 Fax: (08) 9671 1505

WYALKATCHEM
Agro Machinery
Railway Terrace
P: (08) 9681 1088 Fax: (08) 9681 1082

HOLDEN DEALERS cont.

SUBURBAN DEALERS

It is preferred and recommended that you take your Suburban vehicle to your your Selling Dealer when serice or warranty is required. The following Dealers are Suburban-trained Dealers.

Queensland

ASPLEY
Zupps Aspley
1454 Gympie Road
P: (07) 3246 8000 Fax: (07) 3263 7036

NEWSTEAD
Eagers Retail Pty Ltd
95 Breakfast Creek Road
P: (07) 3364 1199 Fax: (07) 3364 1099

ROBINA
Smith's Robina Holden
16 Brabham Circuit
P: (07) 5575 0500 Fax: (07) 5562 1072

CAIRNS
Ireland Holden
227~233 Mulgrave Road
P: (070) 523 666 Fax: (070) 523 606

New South Wales

LIVERPOOL
McGrath Holden
411~419 Hume Highway
P: (02) 9821 5000 Fax: (02) 9821 1993

PENNANT HILLS
Barry Smith Holden
351~355 Pennant Hills Road
P: (02) 9481 8222 Fax: (02) 9484 7475

ROSEBERY
Suttons City Holden
Link Road
P: (02) 9931 3000 Fax: (02) 9931 3001

BELCONNEN (ACT)
Gerald Slaven Holden
Josephson Street
P: (062) 515 111 Fax: (062) 531 298

CARDIFF
Brian Kelly Holden
35~39 MacQuarie Road
P: (049) 547 733 Fax: (049) 549 407

DUBBO
John Kierath
54 Bourke Street
P: (068) 821 011 Fax: (068) 827 102

PORT MACQUARIE
Bob Todd Motors Pty Ltd
115 Gordon Street
P: (065) 831 100 Fax: (065) 849 508

Victoria

ESSENDON
Preston Motors (Essendon) P/L
205~211 Keilor Road
P: (03) 9374 2888 Fax: (03) 9379 6754

OAKLEIGH
Garry & Warren Smith
1575 Dandenong Road
P: (03) 9568 6333 Fax: (03) 9568 5691

RINGWOOD
Patterson Cheney Holden
45~57 Maroondah Highway
P: (03) 9262 6666 Fax: (03) 9870 1113

GEELONG
R & B Smith Holden
510 Moorabool Street
P: (052) 222 888 Fax: (052) 213 114

TRARALGON
Colin Watson Holden
Princes Highway
P: (03) 5174 8000 Fax: (03) 5175 0050

Tasmania,

HOBART
Motors Pty Ltd
179 MacQuarie Street
P: (03) 6220 1171 Fax: (03) 6223 8117

S.A.

MALVERN
Claridge Holden
361~367 Unley Road
P: (08) 8272 1600 Fax: (08) 8373 0057

W.A.

FREMANTLE
Shacks Holden
64 Queen Victoria Street
P: (08) 9432 9432 Fax: (08) 9432 9456

PERTH
City Motors
505 Newcastle Street
P: (08) 9422 7777 Fax: (08) 9422 7630

SUBURBAN DEALERS cont.

New South Wales

LIVERPOOL
McGrath Holden
411~419 Hume Highway
P: (02) 9821 5000 Fax: (02) 9821 1993

PENNANT HILLS
Barry Smith Holden
351~355 Pennant Hills Road
P: (02) 9481 8222 Fax: (02) 9484 7475

ROSEBERY
Suttons City Holden
Link Road
P: (02) 9931 3000 Fax: (02) 9931 3001

BELCONNEN (ACT)
Gerald Slaven Holden
Josephson Street
P: (062) 515 111 Fax: (062) 531 298

CARDIFF
Brian Kelly Holden
35~39 MacQuarie Road
P: (049) 547 733 Fax: (049) 549 407

DUBBO
John Kierath
54 Bourke Street
P: (068) 821 011 Fax: (068) 827 102

PORT MACQUARIE
Bob Todd Motors Pty Ltd
115 Gordon Street
P: (065) 831 100 Fax: (065) 849 508

Victoria

ESSENDON
Preston Motors (Essendon) P/L
205~211 Keilor Road
P: (03) 9374 2888 Fax: (03) 9379 6754

OAKLEIGH
Garry & Warren Smith
1575 Dandenong Road
P: (03) 9568 6333 Fax: (03) 9568 5691

RINGWOOD
Patterson Cheney Holden
45~57 Maroondah Highway
P: (03) 9262 6666 Fax: (03) 9870 1113

GEELONG
R & B Smith Holden
510 Moorabool Street
P: (052) 222 888 Fax: (052) 213 114

TRARALGON
Colin Watson Holden
Princes Highway
P: (03) 5174 8000 Fax: (03) 5175 0050

Tasmania,

HOBART
Motors Pty Ltd
179 MacQuarie Street
P: (03) 6220 1171 Fax: (03) 6223 8117

S.A.

MALVERN
Claridge Holden
361~367 Unley Road
P: (08) 8272 1600 Fax: (08) 8373 0057

W.A.

FREMANTLE
Shacks Holden
64 Queen Victoria Street
P: (08) 9432 9432 Fax: (08) 9432 9456

PERTH
City Motors
505 Newcastle Street
P: (08) 9422 7777 Fax: (08) 9422 7630

CHAPTER 10

Towing

Page

10-2 Loading the vehicle
10-2 Towing weights
10-3 Roof rack loads
10-4 Starting on inclines
10-6 Towing precautions

LOADING AND TOWING

Overloading is a safety hazard and could also shorten the life of your vehicle.

Curb mass

Some States specify that the load being towed must not exceed the weight of the vehicle. The curb mass shown below is for the weight of a standard unloaded vehicle with a full tank of fuel. The curb mass for your Suburban is:

2639 kg - 1500 series
3063 kg - 2500 series

G.V.M.

Gross Vehicle Mass (G.V.M.) is the total weight that a vehicle is allowed to weigh when fully loaded. This must include luggage, passengers, a full tank of fuel and tow bar ball load. The maximum, allowable G.V.M. for your Suburban is:

3311 kg - 1500 series
3900 kg - 2500 series

Towing capacity (State regulations permitting)

You may tow up to 750 kg without trailer braking.

Provided that the trailer is fitted with trailer brakes that are driver actuated and operating on all wheels (including 'break away' operation in an emergency), you may tow up to the maximum towing limit of 2720 kg - 1500 series
3400 kg - 2500 series

NOTE: If you tow a trailer at an altitude of more than 1,000 m above sea-level, reduce the maximum trailer weight by 10% of the G.V.M. for every increase of 1,000 m above sea-level. This is the result of a decrease in engine performance owing to decrease in the atmospheric pressure.

Front and rear axle loads

The maximum allowable front axle load is:

1780 kg - 1500 series
1928 kg - 2500 series

The maximum allowable rear axle load is:

1814 kg - 1500 series
2722 kg - 2500 series

However, the combination of the front and rear axle load should never exceed the maximum G.V.M.

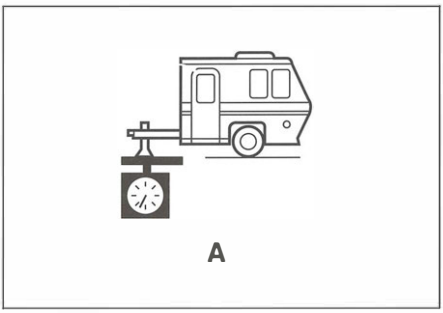
Remember to take the tow bar ball load into account when determining the rear axle load.

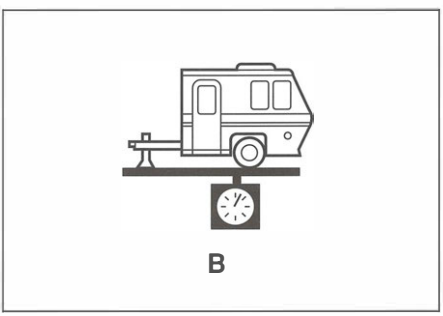
LOADING AND TOWING

Tow bar ball load

The tow bar ball load is the weight on the tow bar ball, when the packed trailer/caravan is hitched. It must not exceed or drop below the following.

- With a weight - carrying hitch, the tow bar ball load (A) should be 10% of the total loaded trailer weight (B).
- With a weight - distributing hitch, the tow bar ball load (A) should be 10% of the total loaded trailer weight (B).





The tow bar ball load can be adjusted by correctly packing the contents of the trailer/caravan. The vehicle and trailer should remain horizontal and if this can not be achieved through better load distribution then a load equalizer hitch should be used.

If the ball load is too light or too heavy, the steering and handling of the vehicle will be greatly impaired. However, it is desirable to aim for the maximum, rather than the minimum tow bar ball load.

When measuring the tow bar ball load, make sure that the drawbar of the loaded trailer/caravan is at the same height as it will be when the trailer/caravan is mounted on the vehicle. This is particularly important for trailer/caravans with tandem axles.

A load equalizing hitch must be used when towing over 2000 kg.

An Isuzu General Motors approved 3400 kg. capacity load equalizing hitch package is available through any Holden Suburban specialist dealer.

Roof rack loads

For your safety and to avoid damaging the roof, only use the Holden roof rack system for your Suburban.

The maximum permissible roof rack load for your Suburban is 90.6 kg for normal road use and a maximum of 30 kg for off road use.

The roof rack load consists of the weight of the roof rack plus the load carried.

For safety reasons, distribute the load evenly, secure it with straps and do not drive faster than 120 km/h (where State Laws allow). The tyre inflation pressure should be set to the value given for full load.

TOWING AND LOADING

Fitting bull bars, driving lights, insect screens

When fitting these accessories be careful not to restrict air flow through the condenser and radiator, otherwise engine overheating and/or poor air conditioning performance may result.

Towing

Your vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a caravan or trailer. Before attempting any towing, ensure that the correct equipment is fitted. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

Note: Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment.

TOWING PRECAUTIONS

- Your vehicle will handle differently when towing. It's a good idea to make a couple of short distance trips with the caravan or trailer before you set off on the big one.
- Have your vehicle correctly maintained and serviced.
- Have your caravan or trailer maintained and serviced, with particular attention given to condition of brakes, tyres, suspension, wheel bearings, towing coupling and lighting.
- Driving speed should be reduced when towing.
- If the caravan/trailer has low directional stability it is advisable to use a stabilizer to limit rolling motions.
- Ensure that the loads in the trailer/caravan are secured so that they cannot slip.
- You should have an extended-arm mirror on both sides of your vehicle.
- Headlights may need re-aiming after the loaded caravan has been hitched.
- Use a lower gear, rather than your brakes when descending steep hills.
- If your caravan or trailer moves off the road behind you, allow the left wheels of your vehicle to move off as well. When it is safe to do so, carefully steer back on to the road. A sudden attempt to steer back could make you swerve dangerously.
- When towing, your tyres should be inflated to the maximum recommended pressure.
- Trailer brakes are required on trailers weighing over 500 kg when loaded. Some States require trailer brakes on loads less than 500 kg.
- The brakes on the trailer or caravan must be designed to cope with the braking requirements of that trailer or caravan under all towing conditions, without adversely affecting the brakes on the vehicle.
- Whenever a towbar is removed, be certain to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.
- Ensure that the tow bar does not obscure the rear licence plate. If necessary, remove the towbar tongue when it is not required for towing.
- More frequent vehicle maintenance is required when using your vehicle to pull a trailer or caravan, refer page 12-3.

CHAPTER 11

Cleaning

Page

INTERIOR CLEANING

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11-2 Vinyl fabrics
11-2 Leather
11-3 Cloth fabrics
11-3 Carpet
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11-3 Interior glass

EXTERIOR CLEANING

11-4 Washing
11-5 Grease, oil & tar spots
11-5 Polishing
11-5 Paint inspection
11-5 Wheels
11-6 Tyres
11-6 Exterior glass
11-7 Cleaning products

INTERIOR CLEANING

CAUTION: Many cleaners may be toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as: acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Be sure the vehicle is well ventilated while using any cleaners and always follow the cleaning manufacturer's recommendations.

Care and cleaning of upholstery

Dust and dirt which accumulate on upholstery should be removed every few weeks - more often with constant driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains, it is necessary to determine as accurately as possible:

- The type of fabric.
- The nature and age of the stain.
- The effect of the stain removal agent on the upholstery.

Remove the stains as soon as possible after they have been made. If they are allowed to remain for any length of time they very often become oxidised or set, and removal becomes difficult, if not impossible.

Vinyl

Vinyl fabrics are used for seating, headlinings and auxiliary trimming. The surface should be wiped over with a dry cloth during the regular cleaning of the vehicle.

Should dirt accumulate and become embedded in the material pattern:

1. Use luke warm water and soap, or Holden Velour Fabric and Vinyl Cleaner and work up thick suds on a piece of cheesecloth, and apply to the surface. A soft bristle brush can be used to remove embedded dirt and stubborn stains.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

Leather

Ordinary soilage can be removed with warm water and a mild soap such as saddle soap or oil soap.

Should dirt accumulate and become embedded in the material pattern:

- Apply a small amount of soap solution and allow to soak for a few minutes to loosen dirt, then rub briskly with a clean damp cloth to remove dirt and traces of soap. This may be repeated several times, if necessary.
- Some compounds such as tar, asphalt, shoe polish etc. will stain if allowed to remain to trim. They should be wiped off as quickly as possible and the area cleaned with a clean cloth dampened with vinyl cleaner (solvent type).

INTERIOR CLEANING

Cloth

- Most loose dirt and dust can be removed by a vacuum cleaner or soft brush.
- DO NOT use a whisk broom or a coarse hair brush.
- For normal soiling, sponge lightly with warm water containing a detergent and a small amount of ammonia. The fabric should then be rubbed lightly, and if necessary, sponged again to remove anything stubborn. Soak up excess fluid with a dry cloth. Holden Velour Fabric and Vinyl Cleaner may be used to advantage, but should be used sparingly.

Carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using Holden Velour Fabric and Vinyl Cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

Seat belts

Clean seat belts with a mild, non-abrasive soap and luke warm water. After washing, be sure to thoroughly sponge the washing solution out of the belts.

CAUTION: Do not bleach or dye seat belts as this may severely weaken them.

Interior glass

The interior glass area of the vehicle should be cleaned using Holden Glass Cleaner with a clean soft cloth. Care must be taken when cleaning inside the rear window so as not to damage the demister.

Never use abrasive cleaners on any vehicle glass, as they can cause scratches.

WASHING

CAUTION: Care should be taken when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

Regular, thorough care improves the value and appearance of your vehicle. It is also a prerequisite for warranty claims on paint or corrosion damage.

Underbody cleaning

Your vehicle has a factory-applied PVC undercoating in the wheel arches (including longitudinal members) which provides permanent protection and needs no special maintenance. The surfaces of the vehicle underside not covered by PVC are provided with a durable protective wax coating.

Once a year, preferably before the start of the cold season the wax coating and PVC coating should be checked and if necessary, restored to perfect condition. Commercial bitumen and rubber materials can damage PVC coating. Have all work on the underbody performed by a Holden Dealer, as it requires knowledge of the specified materials and experience concerning their application.

The underbody should be washed following the end of the cold weather season to remove any dirt adhering to the underbody, since this may also contain salt.

Washing paint

Washing not only removes dirt and road grime that settles on the vehicle, but also dilutes acids which accompany such grime, in particular, salt from air or sea spray encountered in coastal areas which often become trapped in crevices. Tree sap, road tar, excretion from birds, insects and industrial fall out often contain harmful chemicals and other foreign matter that may permanently damage the paint finish of the vehicle. These should be removed without delay, using an effective removal agent.

Regular washing

If the vehicle is in continuous use, it should be washed at least once a week with either cold or warm water (preferably running water), using clean chamois leathers, sponges or rags free from dirt or grit likely to scratch the paint finish. It is good practice to first hose the vehicle to remove as much of the grit and grime as possible before swabbing the surface.

Do not wash the vehicle under bright sunlight on hot days, as this will result in a streaky or spotted paint finish. This is caused by refraction of sunlight through the water drops (just like a magnifying glass) which concentrates the sunlight, producing very high temperatures on the paint surface. For the same reason, you should thoroughly dry the vehicle after washing.

Holden Foaming Car Wash or Wash On Shine loosens road grime to make washing easier and leaves paint shining clean, refer last page of this chapter.

Do not use hot water, strong soap or chemical detergents. Any cleaner should be flushed promptly from the surface and not allowed to dry on the finish.

EXTERIOR CLEANING

Removing grease, oil and tar spots

Grease and oil, and even tar if it's fresh, can be removed from the finish with a little kerosene or turpentine. As a precaution against staining, wash and polish as soon as possible the area from which the foreign matter has been removed.

Warnings

- Some chemical cleaners used for removing road oils and tars from painted surfaces have been found to be detrimental to paint finishes.
- If petrol is spilt on the paint when refilling, flush off immediately with clean water, as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the vehicle is exposed to high temperatures.
- Petrol MUST NOT be used to clean any painted or plastic surfaces.

Polishing and waxing

Wax your vehicle regularly and in particular after it has been washed using shampoo, otherwise the paintwork will dry out. The vehicle must be re-waxed before water no longer forms beads on the paint. Waxing prevents harmful chemical action. Also wax edges and folds on opened doors and flaps as well the areas they cover.

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it. Plastic body parts should not be treated with wax or polish.

Paint inspection

Regular inspection of the vehicle should be made for scratch marks, cracks or damaged areas, all of which could develop rust and thus affect paint finish. Any deep scratches, cracks or breakdown in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust "creep" will extend beyond the damaged area. This applies particularly in sub-tropical areas or coastal districts, where the moist, or salt-laden atmosphere accelerates rusting if it is allowed to develop through neglect. The paint finish of the vehicle gives a very high degree of protection against the weather, but it should be realised that wear and deterioration occur when the vehicle is exposed to elements for prolonged periods. The vehicle therefore should be garaged whenever possible.

Wheels

Wheels are painted and can be treated with the same cleaner as the body.

EXTERIOR CLEANING, WHEELS & TYRES

Tyres

Sponging with cold water is all that is necessary for normal cleaning of the tyres. Oil and grease can, and should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres. Do not use high-pressure jet cleaners on wheels and tyres.

Glass cleaning - general

Special care should be taken to avoid scratching the glass when cleaning. If it is cleaned at the same time as the rest of the vehicle, there is a possibility that particles of grit will cause fine scratches. Flush off any heavy mud deposits on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use Holden Glass Cleaner and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean old linen cloth is better than new material for polishing glass.

Windscreen

It is important that the windscreen be kept clean so that the wiper blades may be as effective as possible. Old wiper blades can cause windscreen scratching and so should be regularly inspected and replaced. Abrasive cleaners should never be used to clean glass as they can cause scratches, impairing night vision. After the windscreen has been cleaned with a wet sponge it should be wiped over with a soft, lint free cloth or chamois.

It is recommended that Holden Optikleen be added to the windscreen washer reservoir.

Wiper blades

Oil and road scum thrown up on the windscreen will cause smearing when the wipers are switched on, when the dirt is transferred onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass reappears immediately the wiper blades are used. The blades can be cleaned by lifting them off the windscreen and cleaning with Holden Optikleen and a clean cloth.

DO NOT OPERATE THE WIPER BLADES BY HAND AS THIS MAY DAMAGE THE WIPER DRIVE MECHANISM

If the wiper blades are used to clean dust and dirt from the windscreen in dry conditions always use the washer system first to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

Engine bay

Important areas of the engine bay have been protected with a lacquer coating. Wash the engine only if absolutely necessary. Before washing the engine, protect the alternator and brake fluid container with plastic covers. After washing, parts of the engine, parts of the brake system located in the engine bay, axle components as well as body parts and cavities may need to protectively re-waxed.

CLEANING PRODUCTS

HOLDEN PART NUMBER	SIZE	DESCRIPTION	USAGE
92141386	500 ml	Polymer glaze polish	Seals in a deep, lustrous, glazed finish. Long life protection from oxidation, salt and weather damage.
92141387	500 ml	Easy gloss polish	Contains silicones and hard working waxes for extra shine
92141388	500 ml	Wash on shine	Contains polymer protectants to shine. Adds a protective film to paintwork.
92141389	500 ml	Foaming car wash	Leaves a no-streak finish.
92141390	400 g	Velour fabric and vinyl cleaner	Cleans and deodorises velour, most fabric and vinyl upholstery, hood linings, mats and carpets.
92141391	350g	Tyre and bumper shine	Restores tyres and bumpers to as new finish.
92141182	350 g	Glass cleaner	Cleans all glass surfaces.
92141392		Chamois	
92140005	500 ml	Optikleen	Windscreen washer solvent.
92140004	5 ml	Optikleen sachet	Windscreen washer solvent - 1 sachet per washer bottle refill
92141393	125 g	Car freshener/deodorant	Removes tobacco smells and other odours.
92141394	300 g	Bug, tar and spot remover	Quickly dissolves and removes tar, grease, oil, bugs and other stubborn stains from your car's exterior.
92141395	750 ml	Wheel cleaner	Wheel cleaner, including alloy wheels
92141396	400 g	Degreaser	Removes oil and grease from engines.

CHAPTER 12

Servicing

Page

12-2 Service intervals
12-3 Extreme operating conditions
12-5 Maintenance schedule
12-6 Service costs
12-7 Maintenance coupons

SERVICE INTERVALS

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. I-GM invites you to return to your Dealer for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians at Holden Dealers.

Therefore, it is in your interest that the following services are performed at the specified Distance or Month (whichever occurs first) intervals.

5,000 km	- 3 months
10,000 km	- 6 months
20,000 km	- 1 year
30,000 km	- 1.5 years
40,000 km	- 2 years
50,000 km	- 2.5 years
60,000 km	- 3 years
70,000 km	- 3.5 years
80,000 km	- 4 years
90,000 km	- 4.5 years
100,000 km	- 5 years

The three month (5,000 kilometres) sevice will be performed without cost for labour by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of Introduction from the Selling Dealer.

Your Dealer will supply the necessary Letter of Introduction upon request.

The services shown in this schedule between 10,000 km and 100,000 km are to be performed after 100,000 km at the same intervals.

NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to the drive belts, transmission, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Failure to have proper maintenance services carried out by an Authorised Holden Dealer or Service Dealer may void your new Vehicle Warranty if the work is not carried out in accordance with Holden's specifications. It is strongly recommended that you read the "New Vehicle Warranty" in Chapter 9, so that you are aware of the conditions.

Service coupons are provided further on in this chapter. As each service is performed and the coupon removed, the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should see that the Validation Record is stamped and signed by the Dealer. This is important, as it will not only assist in determining Warranty Claims, but will enhance the value of the vehicle on resale.

EXTREME OPERATING CONDITIONS

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Schedule.

NOTE: The extra services listed below need only be used continuously if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis, e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,000 kilometres under any of the extreme conditions, then this could qualify for additional services.

Change engine oil every 5,000 km/3 months			C	D	E
Replace engine oil filter every 5,000 km/3 months			C	D	E
Change air cleaner element every 20,000 km/1 year			C	D	
Inspect steering system for looseness or damage every 5,000 km/3 months		B	C		
Lubricate all chassis components every 5,000 km/3 months		B	C	D	
Inspect universal joints and splines for wear every 5,000 km/3 months		B	C		E
Change automatic transmission oil and filter every 50,000 km/2.5 years	A	B	C	D	E
Change differential oil every 20,000 km/1 year		B	C		E
Inspect brake pads and linings every 10,000 km/6 months	A	B	C		E

A = Repeated short trips
B = Driving on rough roads
C = Driving on dusty, muddy roads and/or off-road
D = Repeated short trips in extremely cold weather
E = Towing

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer. Your Holden Dealer can inform you which additional services are required between the normal service intervals after considering your specific operating conditions.

Additional services should be verified in the spaces provided on the following page.

SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed	SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed ....
SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed	SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed ....
SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed	SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed ....

MAINTENANCE SCHEDULE

Use odometer reading or months, x1 000km		5	10	20	30	40	50	60	70	80	90	100
whichever occurs first or years		.25	.5	1	1.5	2	2.5	3	3.5	4	4.5	5
UNDER BONNET												
P Engine oil & engine oil filter	*		R	R	R	R	R	R	R	R	R	R
D Engine oil & engine oil filter	*		R	R	R	R	R	R	R	R	R	R
Oil leakage & contamination		I	I	I	I	I	I	I	I	I	I	I
Fluid levels: power steering, brake, w/washer		I	I	I	I	I	I	I	I	I	I	I
Coolant level 50% concentration		I		I		I		I		I		R
Pressure test radiator cap & cooling system				I		I		I		I		I
Clean front of radiator core & A/C condensor		I	I	I	I	I	I	I	I	I	I	I
All hoses & pipes for deterioration or leaks		I	I	I	I	I	I	I	I	I	I	I
Fuel filter							R					R
Air cleaner element	*						R					R
Air cleaner filter restrictor indicator		I	I	I	I	I	I	I	I	I	I	I
All drive belts for tension & damage		I					I					I
P Spark plugs		Replace spark plugs at 5 years or 160,000 km										
D Crankcase depression regulator valve												I
UNDER VEHICLE												
Lubricate all chassis components	*	L	L	L	L	L	L	L	L	L	L	L
Brake fluid							R					R
Automatic transmission & transfer case oil	*	I	I	I	I	I	I	I	I	I	I	R
Front differential gear oil	*	I	I	I	I	I	I	I	I	I	I	R
Rear differential gear oil	*	I	R	I	I	I	I	I	I	I	I	R
Universal joints & splines for wear	*			I		I		I		I		I
Universal joints & sliding sleeve	*	L	L	L	L	L	L	L	L	L	L	L
Front disc brake pads/discs	*			I		I		I		I		I
Rear brake linings/drums	*			I		I		I		I		I
Tyre pressure, wheels & tyres for damage		I	I	I	I	I	I	I	I	I	I	I
Tyre rotation			R	R	R	R	R	R	R	R	R	R
General under body check: Steering & suspension components, shock absorbers, rubber bushes & boots, ball joints & connections, fuel system, exhaust system, brake system, bolts, nuts, hoses, pipes looseness & for leaks	*	I	I	I	I	I	I	I	I	I	I	I
INSIDE VEHICLE												
Brake pedal travel & free play		I	I	I	I	I	I	I	I	I	I	I
Park brake lever travel		I	I	I	I	I	I	I	I	I	I	I
Steering wheel free play		I	I	I	I	I	I	I	I	I	I	I
Operation of lights, wipers, switches & controls		I	I	I	I	I	I	I	I	I	I	I
ROAD TEST												
Check braking, steering, engine, transmission and vehicle performance on the road.		I	I	I	I	I	I	I	I	I	I	I
SERVICE TIMES (hours)												
Petrol engine		-	1.2	1.5	1	1.5	2.3	1.5	1	1.5	1	3
Diesel engine		-	1.2	1.5	1	1.5	2.5	1.5	1	1.5	1	3.2

I: Inspect & correct or replace as necessary **R**: Replace, change or rotate **L**: Lubricate **P**: Petrol **D**: Diesel
*: Under extreme operating conditions more frequent maintenance is required, refer page 12-3.

MAINTENANCE SCHEDULE

- The owner will be charged for all lubricants and materials used plus labour at the times recommended on the previous page.
- The repair or replacement of any part found faulty during a service check and not covered by Holden Warranty will be added to the charges.
- Where any deficiencies are noted, such items should be reported to the owner/ operator so that the extra work required can be authorised.
- The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may indeed be harmful to your vehicle.

5,000 km or 3 months Service Validation

This vehicle has been thoroughly checked in accordance with the 5,000 km/three months service.

Dealer .....

Service Manager's signature .....

Date ..... Odometer reading .....

5,000 km or 3 months

SERVICE COUPON

This coupon should not be removed until the vehicle is presented for service.

Owner's Name Mr. Mrs. ..... Miss. Other .....

Address .....

Town & State ..... Postcode .....

Reg. no. ..... Engine no .....

I.S.O.V.I.N. ..... Model .....

Selling Dealer's Stamp & Signature .....

Date of Acquisition .....

This vehicle has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp & Signature .....

Servicing Dealer .....

Town ..... State .....

Owner's signature .....

This service will be carried out without charge to the owner. The owner will, however, be charged for any lubricants or parts used.

- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ COOLANT - check fluid level and concentration
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ DRIVE BELTS - check for tension or damage
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

10,000 km or 6 months

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.2 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

10,000 km or 6 months Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - Check front differential gear oil and replace rear differential gear oil.
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension component, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

20,000 km or 1 year Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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20,000 km or 1 year

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours
- add 0.2 hours if brake fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ COOLANT - check fluid level and concentration
- ❑ RADIATOR CAP AND COOLING SYSTEM - inspect and perform pressure test
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SPLINES - check for wear
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ FRONT DISC BRAKE PADS/DISCS - check
- ❑ REAR BRAKE LININGS/DRUMS - check
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

30,000 km or 1.5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

30,000 km or 1.5 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

40,000 km or 2 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

40,000 km or 2 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ COOLANT - check fluid level and concentration
- ❑ RADIATOR CAP AND COOLING SYSTEM - inspect and perform pressure test
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SPLINES - check for wear
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ FRONT DISC BRAKE PADS/DISCS - check
- ❑ REAR BRAKE LININGS/DRUMS - check
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

50,000 km or 2.5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 2.3 hours (petrol) or
  2.5 hours (diesel)

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

50,000 km or 2.5 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ FUEL FILTER - replace
- ❑ AIR CLEANER ELEMENT AND FILTER RESTRICTOR INDICATOR - check filter restrictor indicator and replace element
- ❑ DRIVE BELTS - check for tension or damage
- ❑ CHASSIS - lubricate all components
- ❑ BRAKE FLUID - replace
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - change/rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

60,000 km or 3 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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60,000 km or 3 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ COOLANT - check fluid level and concentration
- ❑ RADIATOR CAP AND COOLING SYSTEM - inspect and perform pressure test
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SPLINES - check for wear
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ FRONT DISC BRAKE PADS/DISCS - check
- ❑ REAR BRAKE LININGS/DRUMS - check
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

70,000 km or 3.5 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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70,000 km or 3.5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

80,000 km or 4 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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80,000 km or 4 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ COOLANT - check fluid level and concentration
- ❑ RADIATOR CAP AND COOLING SYSTEM - inspect and perform pressure test
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SPLINES - check for wear
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ FRONT DISC BRAKE PADS/DISCS - check
- ❑ REAR BRAKE LININGS/DRUMS - check
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

90,000 km or 4.5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

90,000 km or 4.5 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

100,000 km or 5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3 hours (petrol) or 3.2 hours (diesel)

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

100,000 km or 5 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ COOLANT - replace (50% concentration)
- ❑ RADIATOR CAP AND COOLING SYSTEM - inspect and perform pressure test
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ FUEL FILTER - replace
- ❑ AIR CLEANER ELEMENT AND FILTER RESTRICTOR INDICATOR - check filter restrictor indicator and replace element
- ❑ DRIVE BELTS - check for tension or damage
- ❑ DIESEL ENGINE: CRANKCASE DEPRESSION REGULATOR VALVE - inspect
- ❑ CHASSIS - lubricate all components
- ❑ BRAKE FLUID - replace
- ❑ AUTOMATIC TRANSMISSION OIL - replace
- ❑ TRANSFER CASE OIL - replace
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - replace
- ❑ UNIVERSAL JOINTS AND SPLINES - check for wear
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ FRONT DISC BRAKE PADS/DISCS - check
- ❑ REAR BRAKE LININGS/DRUMS - check
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

110,000 km or 5.5 years

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.2 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

110,000 km or 5.5 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - Check front differential gear oil and replace rear differential gear oil.
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension component, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREEPLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREEPLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

120,000 km or 6 years

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

120,000 km or 6 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed:.....

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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ COOLANT - check fluid level and concentration
- ❑ RADIATOR CAP AND COOLING SYSTEM - inspect and perform pressure test
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SPLINES - check for wear
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ FRONT DISC BRAKE PADS/DISCS - check
- ❑ REAR BRAKE LININGS/DRUMS - check
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

130,000 km or 6.5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

130,000 km or 6.5 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

140,000 km or 7 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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.....

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Signature .....

Date .....

140,000 km or 7 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed:

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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ COOLANT - check fluid level and concentration
- ❑ RADIATOR CAP AND COOLING SYSTEM - inspect and perform pressure test
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SPLINES - check for wear
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ FRONT DISC BRAKE PADS/DISCS - check
- ❑ REAR BRAKE LININGS/DRUMS - check
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

150,000 km or 7.5 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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150,000 km or 7.5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 2.3 hours (petrol) or
  2.5 hours (diesel)

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ FUEL FILTER - replace
- ❑ AIR CLEANER ELEMENT AND FILTER RESTRICTOR INDICATOR - check filter restrictor indicator and replace element
- ❑ DRIVE BELTS - check for tension or damage
- ❑ PETROL ENGINE: SPARK PLUGS - replace
- ❑ CHASSIS - lubricate all components
- ❑ BRAKE FLUID - replace
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - change/rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

160,000 km or 8 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours
- add 0.6 for spark plug replacement

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

160,000 km or 8 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ SPARK PLUGS - replace
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ COOLANT - check fluid level and concentration
- ❑ RADIATOR CAP AND COOLING SYSTEM - inspect and perform pressure test
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SPLINES - check for wear
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ FRONT DISC BRAKE PADS/DISCS - check
- ❑ REAR BRAKE LININGS/DRUMS - check
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

170,000 km or 8.5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

170,000 km or 8.5 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

180,000 km or 9 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1.5 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

180,000 km or 9 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ COOLANT - check fluid level and concentration
- ❑ RADIATOR CAP AND COOLING SYSTEM - inspect and perform pressure test
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SPLINES - check for wear
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ FRONT DISC BRAKE PADS/DISCS - check
- ❑ REAR BRAKE LININGS/DRUMS - check
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

190,000 km or 9.5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

190,000 km or 9.5 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ AIR CLEANER FILTER RESTRICTOR INDICATOR - check
- ❑ CHASSIS - lubricate all components
- ❑ AUTOMATIC TRANSMISSION OIL - check
- ❑ TRANSFER CASE OIL - check
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - check
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

200,000 km or 10 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3 hours (petrol) or 3.2 hours (diesel)

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

200,000 km or 10 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ ENGINE OIL AND FILTER - replace
- ❑ OIL - check for oil leakage and contamination
- ❑ POWER STEERING - check fluid level
- ❑ WASHER - check fluid level
- ❑ BRAKES - check fluid level
- ❑ COOLANT - replace (50% concentration)
- ❑ RADIATOR CAP AND COOLING SYSTEM - inspect and perform pressure test
- ❑ RADIATOR CORE, A/C CONDENSOR - inspect and clean front
- ❑ HOSES AND PIPES - check for deterioration or leaks
- ❑ FUEL FILTER - replace
- ❑ AIR CLEANER ELEMENT AND FILTER RESTRICTOR INDICATOR - check filter restrictor indicator and replace element
- ❑ DRIVE BELTS - check for tension or damage
- ❑ DIESEL ENGINE: CRANKCASE DEPRESSION REGULATOR VALVE - inspect
- ❑ CHASSIS - lubricate all components
- ❑ BRAKE FLUID - replace
- ❑ AUTOMATIC TRANSMISSION OIL - replace
- ❑ TRANSFER CASE OIL - replace
- ❑ FRONT AND REAR DIFFERENTIAL GEAR OIL - replace
- ❑ UNIVERSAL JOINTS AND SPLINES - check for wear
- ❑ UNIVERSAL JOINTS AND SLIDING SLEEVE - lubricate
- ❑ FRONT DISC BRAKE PADS/DISCS - check
- ❑ REAR BRAKE LININGS/DRUMS - check
- ❑ WHEELS - check wheel nut torque, tyre/wheel condition and tyre pressure
- ❑ TYRE ROTATION - rotate tyres
- ❑ UNDERBODY (GENERAL) - check steering and suspension components, shock absorbers, rubber bushes and boots, ball joints and connections, fuel system, exhaust system, brake system, nuts, bolts, hoses and pipes. Also check for leaks.
- ❑ BRAKE PEDAL TRAVEL AND FREE PLAY - check
- ❑ PARK BRAKE LEVER TRAVEL - check
- ❑ STEERING WHEEL FREE PLAY - check
- ❑ LIGHTS, WIPERS, SIGNALLING DEVICES, SWITCHES AND CONTROLS - check for proper operation
- ❑ ROAD TEST

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